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<b>(21) International Application Number:</b> PCT/US99/13181 <b>(22) International Filing Date:</b> 10 June 1999 (10.06.99) <b>(30) Priority Data:</b> 60/088,877      11 June 1998 (11.06.98)      US Not furnished      9 June 1999 (09.06.99)      US <b>(71) Applicant:</b> CHIRON CORPORATION [US/US]; 4560 Horton Street, Emeryville, CA 94608-2916 (US). <b>(72) Inventors:</b> ASTEL, Jon, H.; 4560 Horton Street, Emeryville, CA 94608-2916 (US). CARROLL, Eddie, III; 4560 Horton Street, Emeryville, CA 94608-2916 (US). ENDEGE, Wilson, O.; 4560 Horton Street, Emeryville, CA 94608-2916 (US). FORD, Donna, M.; 4560 Horton Street, Emeryville, CA 94608-2916 (US). MONAHAN, John, E.; 4560 Horton Street, Emeryville, CA 94608-2916 (US). SCHLEGEL, Robert; 4560 Horton Street, Emeryville, CA 94608-2916 (US). STEINMANN, Kathleen, E.; 4560 Horton Street, Emeryville, CA 94608-2916 (US). ZHANG, Jimmy; 4560 Horton Street, Emeryville, CA 94608-2916 (US). <b>(74) Agents:</b> BAYNHAM, Robert, J.; Chiron Corporation, Intellectual Property-R338, P.O. Box 8097, Emeryville, CA 94662-8097 (US) et al.	<b>(81) Designated States:</b> AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, UZ, VN, YU, ZA, ZW, ARIPO patent (GH, GM, KE, LS, MW, SD, SL, SZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG).  <b>Published</b> <i>Without international search report and to be republished upon receipt of that report.</i>	
<b>(54) Title:</b> GENES AND GENE EXPRESSION PRODUCTS THAT ARE DIFFERENTIALLY REGULATED IN PROSTATE CANCER		
<b>(57) Abstract</b>  This invention relates to novel human genes, to proteins expressed by the genes, and to variants of the proteins. The invention also relates to diagnostic and therapeutic agents related to the genes and proteins, including probes, antisense constructs, and antibodies. The invention further relates to polynucleotides differentially expressed in prostate cancer.		

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## GENES AND GENE EXPRESSION PRODUCTS THAT ARE DIFFERENTIALLY REGULATED IN PROSTATE CANCER

### FIELD OF THE INVENTION

This invention relates to the area of diagnosis, prognosis, and treatment  
5 of cancer, tumor progression, hyperproliferative cell growth, and accompanying  
physical and biological manifestations. More specifically, the invention includes  
polynucleotides that are differentially regulated in prostatic disorders, such as metastatic  
prostate cancer, localized prostate cancer, and benign prostate hyperplasia (BPH).

### BACKGROUND OF THE INVENTION

10 Genes that are up- or down-regulated in cancer or tumor progression are  
useful for therapeutic and diagnostic purposes. For example, detection of genes or gene  
expression products up-regulated in hyperproliferative cells can be a predictive or  
diagnostic marker of the onset or the progression of cancer. Early diagnosis can be  
useful if the cancer, tumors, or hyperproliferating cells can be inhibited, removed, or  
15 terminated to prevent metastasis or recurrence of cancerous growth. Such early warning  
is of particular use to prostate cancer patients, where removal of the growth, tumor, or  
cells is beneficial if the disease is confined to the prostate. There is a need in the art for  
genes related to cancer and tumor progression.

### SUMMARY OF THE INVENTION

20 The present invention provides methods and reagents for diagnosing  
cancer, tumor progression, hyperproliferative cell growth, and accompanying biological  
and physical manifestations. Reagents for such diagnostic kits include:

- (a) polynucleotides comprising a sequence capable of hybridizing to  
one or more of SEQ ID NO:1-339 or complement thereof;
- 25 (b) polypeptides comprising the amino acid sequence encoded by  
any one of SEQ ID NO:1-339; and
- (c) antibodies capable of binding polypeptides comprising the amino  
acid sequence of (b).

The methods of diagnosis of the present invention include both nucleic acid assays and immunoassays.

In another embodiment, the present invention provides both compositions and methods for treating or ameliorating cancer, tumor progression, hyperproliferative cell growth, and accompanying biological and physical manifestations. The compositions for treatment or amelioration include:

- (a) polynucleotides comprising the sequence capable of hybridizing to one or more of the sequences shown in SEQ ID NO:1-339 and complement thereof, including antisense, ribozyme and gene therapy nucleic acid constructs;
- 10 (b) polypeptides comprising the amino acid sequence encoded by any one of SEQ ID NO:1-339; and
- (c) antibodies capable of binding polypeptides of polypeptides comprising the amino acid sequence (b).

Methods of treatment or amelioration include administering compositions of polynucleotides, polypeptides, antibodies, or combinations thereof and can be used

- 15 (a) to inhibit translation and/or transcription;
- (b) to inhibit biological activity;
- (c) as a vaccine antigen; and
- (d) as an immune system inducer.

20 Such compositions can be administered systemically or locally to the desired site.

In one embodiment, the present invention provides a composition comprising an isolated polynucleotide selected from the group consisting of

- (a) any one of SEQ ID NOs:2, 5, 49, 50, 99, 100, 115, 116, 118, 130, 131, 140, 144, 145, 146, 157, 158, 159, 163, 164, 165, 166, 177, 178, 180, 211, 212, 213, 218, 219, 220, 221, 229, 232, 233, 242, 243, 248, 249, 254, 256, 257, 259, 272, 273, 277, 288, 289, 292, 293, 316, 317, and 330;

- (b) a polynucleotide that encodes a variant of the polypeptide encoded by (a); and
  - (c) a polynucleotide encoding a protein expressed by a polynucleotide having the sequence of any one of the sequences of (a).
- 30

Preferably, the nucleic acid obtained from the biological material of part (b) above is genomic DNA or mRNA. The nucleic acid can also be cDNA complementary to the mRNA.

Another embodiment of the invention is the use of the isolated  
5 polynucleotides or parts thereof as diagnostic probes or as primers.

In another embodiment, the present invention provides a composition comprising a polypeptide, wherein said polypeptide is selected from the group consisting of:

(a) a polypeptide encoded by any one of SEQ ID Nos:2, 5, 49, 50,  
10 99, 100, 115, 116, 118, 130, 131, 140, 144, 145, 146, 157, 158, 159, 163, 164, 165, 166, 177, 178, 180, 211, 212, 213, 218, 219, 220, 221, 229, 232, 233, 242, 243, 248, 249, 254, 256, 257, 259, 272, 273, 277, 288, 289, 292, 293, 316, 317, and 330;

(b) a polypeptide encoded by full-length mRNA or cDNA  
corresponding to any one of SEQ ID NO:1-339; and

15 (c) a variant of the protein (a) or (b);

In certain preferred embodiments, the polynucleotide is operably linked to an expression control sequence. The invention further provides a host cell, including bacterial, yeast, insect and mammalian cells, transformed with the polynucleotide sequence. The invention also provides the full-length cDNA and the full length human  
20 gene corresponding to the polynucleotide.

Protein and polypeptide compositions of the invention may further comprise a pharmaceutically acceptable carrier. Compositions comprising an antibody that specifically reacts with such protein or polypeptide are also provided by the present invention.

25 The invention further relates to a polypeptide or nucleic acid obtained by transforming a host cell with nucleic acid comprising at least one of SEQ ID NO:1-339, culturing the host cell, and recovering the replicated nucleic acid, the expressed RNA, and/or the expressed polypeptide.

#### Brief Description of the Figures

30 Figure 1 provides the open reading frame for clone SL 195.

Figure 2 provides the open reading frame for clone SL 197.

Figure 3 provides the immunohistochemistry staining results for clone SL 5 expression in a variety of normal and tumor tissues.

#### Detailed Description of the Invention

Genes that are up- or down-regulated in cancer or tumor progression are useful for therapeutic and diagnostic purposes. For example, a diagnostic assay to determine the stage of the disease also is useful in tailoring treatment of aggressive versus more mild cancer or tumor progression. The polynucleotide sequences and encoded polypeptides of the present invention are useful for these diagnostic or prognostic purposes.

Further, modulation of genes or gene expression products that are mis-regulated can be used to treat or ameliorate cancer, tumor progression, hyperproliferative cell growth, and the accompanying physical and biological manifestations. For example, the polynucleotide sequences provided herein as SEQ ID NO:1-339, can be used to construct the following polynucleotide and polypeptide compositions that are useful for treatment: antisense; ribozymes; antibodies; vaccine antigens; and immune system inducers, to induce dendritic cells, for example.

Identified herein are polynucleotide sequences that are upregulated in a cancer cell line, more specifically in a prostate cancer cell line. Thus, the present invention relates to methods and reagents for diagnosis, and to methods and compositions for treatment.

#### I. Use of Polynucleotides Having a Sequence of One or More of SEQ ID NO:1-339 to Obtain Full-Length cDNA and Full-Length Human Gene and Promoter Region

Full-length cDNA molecules comprising the disclosed sequences are obtained as follows. The polynucleotide or a portion thereof comprising at least 12, 15, 18, or 20 nucleotides is used as a hybridization probe to detect hybridizing members of a cDNA library using probe design methods, cloning methods, and clone selection techniques as described in U.S. Patent No. 5,654,173, "Secreted Proteins and Polynucleotides Encoding Them," incorporated herein by reference. Libraries of cDNA are made from selected tissues, such as normal or tumor tissue, or from tissues of a

mammal treated with, for example, a pharmaceutical agent. Preferably, the tissue is the same as that used to generate the polynucleotides, as both the polynucleotides and the cDNA represent expressed genes. Most preferably, the cDNA library is made from the biological material described herein in the Examples. Alternatively, many cDNA  
5 libraries are available commercially. (Sambrook *et al.*, *Molecular Cloning: A Laboratory Manual*, 2nd Ed. (Cold Spring Harbor Press, Cold Spring Harbor, NY 1989).

Members of the library that are larger than the polynucleotide, and preferably that contain the whole sequence of the native message, are obtained. In order  
10 to confirm that the entire cDNA has been obtained, RNA protection experiments are performed as follows. Hybridization of a full-length cDNA to an mRNA will protect the RNA from RNase degradation. If the cDNA is not full length, then the portions of the mRNA that are not hybridized will be subject to RNase degradation. This is assayed, as is known in the art, by changes in electrophoretic mobility on  
15 polyacrylamide gels, or by detection of released monoribonucleotides. Sambrook *et al.*, *Molecular Cloning: A Laboratory Manual*, 2nd Ed. (Cold Spring Harbor Press, Cold Spring Harbor, NY 1989). In order to obtain additional sequences 5' to the end of a partial cDNA, 5' RACE (PCR Protocols: A Guide to Methods and Applications (Academic Press, Inc. 1990)) is performed.

20 Genomic DNA is isolated using polynucleotides in a manner similar to the isolation of full-length cDNAs. Briefly, the polynucleotides, or portions thereof, are used as probes to libraries of genomic DNA. Preferably, the library is obtained from the cell type that was used to generate the polynucleotides, but this is not essential. Most preferably, the genomic DNA is obtained from the biological material described  
25 herein in the Examples. Such libraries may be in vectors suitable for carrying large segments of a genome, such as P1 or YAC, as described in detail in Sambrook *et al.*, 9.4-9.30. In addition, genomic sequences can be isolated from human BAC libraries, which are commercially available from Research Genetics, Inc., Huntsville, Alabama, USA, for example. In order to obtain additional 5' or 3' sequences, chromosome  
30 walking is performed, as described in Sambrook *et al.*, such that adjacent and

overlapping fragments of genomic DNA are isolated. These are mapped and pieced together, as is known in the art, using restriction digestion enzymes and DNA ligase.

Using the polynucleotides sequences of the invention, corresponding full length genes can be isolated using both classical and PCR methods to construct and  
5 probe cDNA libraries. Using either method, Northern blots, preferably, are performed on a number of cell types to determine which cell lines express the gene of interest at the highest rate.

Classical methods of constructing cDNA libraries are taught in Sambrook et al., supra. With these methods, cDNA can be produced from mRNA and  
10 inserted into viral or expression vectors. Typically, libraries of mRNA comprising poly(A) tails can be produced with poly(T) primers. Similarly, cDNA libraries can be produced using the instant sequences as primers.

PCR methods are used to amplify the members of a cDNA library that comprise the desired insert. In this case, the desired insert will contain sequence from  
15 the full length cDNA that corresponds to the instant ESTs. Such PCR methods include gene trapping and RACE methods. Gruber *et al.*, PCT WO 95/04745 and Gruber *et al.*, U.S. Pat. No. 5,500,356. Kits are commercially available to perform gene trapping experiments from, for example, Life Technologies, Gaithersburg, Maryland, USA. PCT Pub. No. WO 97/19110. (Apte and Siebert, *Biotechniques* 15:890-893, 1993; Edwards  
20 *et al.*, *Nuc. Acids Res.* 19:5227-5232, 1991).

The promoter region of a gene generally is located 5' to the initiation site for RNA polymerase II, and can be obtained by performing 5' RACE using a primer from the coding region of the gene. Alternatively, the cDNA can be used as a probe for the genomic sequence, and the region 5' to the coding region is identified by "walking  
25 up." If the gene is highly expressed or differentially expressed, the promoter from the gene may be of use in a regulatory construct for a heterologous gene.

Once the full-length cDNA or gene is obtained, DNA encoding variants can be prepared by site-directed mutagenesis, described in detail in Sambrook *et al.*, 15.3-15.63. The choice of codon or nucleotide to be replaced can be based on disclosure  
30 herein on optional changes in amino acids to achieve altered protein structure and/or function.

As an alternative method to obtaining DNA or RNA from a biological material, nucleic acid comprising nucleotides having the sequence of one or more polynucleotides of the invention can be synthesized. Thus, the invention encompasses nucleic acid molecules ranging in length from 15 nucleotides (corresponding to at least 5 15 contiguous nucleotides of one of SEQ ID NO:1-339) up to a maximum length suitable for one or more biological manipulations, including replication and expression, of the nucleic acid molecule. The invention includes but is not limited to (a) nucleic acid having the size of a full gene, and comprising at least one of SEQ ID NO:1-339; (b) the nucleic acid of (a) also comprising at least one additional gene, operably linked 10 to permit expression of a fusion protein; (c) an expression vector comprising (a) or (b); (d) a plasmid comprising (a) or (b) ; and (e) a recombinant viral particle comprising (a) or (b).

The sequence of a nucleic acid comprising at least 15 contiguous nucleotides of at least any one of SEQ ID NO:1-339, preferably the entire sequence of 15 at least any one of SEQ ID NO:1-339, is not limited and can be any sequence of A, T, G, and/or C (for DNA) and A, U, G, and/or C (for RNA) or modified bases thereof, including inosine and pseudouridine. The choice of sequence will depend on the desired function and can be dictated by coding regions desired, the intron-like regions desired, and the regulatory regions desired.

20 Where the entire sequence of any one of SEQ ID NO:1-339 is within the nucleic acid, the nucleic acid obtained is referred to herein as a polynucleotide comprising the sequence of any one of SEQ ID NO:1-339.

## II. Expression of Polypeptide Encoded by Full-Length cDNA or Full-Length Gene

The polynucleotide, the corresponding cDNA, or the full-length gene is 25 used to express the partial or complete gene product. Appropriate polynucleotide constructs are purified using standard recombinant DNA techniques as described in, for example, Sambrook *et al.*, (1989) *Molecular Cloning: A Laboratory Manual*, 2nd ed. (Cold Spring Harbor Press, Cold Spring Harbor, New York). The polypeptides encoded by the polynucleotides are expressed in any expression system, including, for example,

bacterial, yeast, insect, amphibian and mammalian systems. Suitable vectors and host cells are described in U.S. Patent No. 5,654,173.

Bacteria. Expression systems in bacteria include those described in Chang *et al.*, *Nature* (1978) 275:615, Goeddel *et al.*, *Nature* (1979) 281:544, Goeddel *et al.*, *Nucleic Acids Res.* (1980) 8:4057; EP 0 036,776, U.S. Patent No. 4,551,433, DeBoer *et al.*, *Proc. Natl. Acad. Sci. (USA)* (1983) 80:21-25, and Siebenlist *et al.*, *Cell* (1980) 20:269.

Yeast. Expression systems in yeast include those described in Hinnen *et al.*, *Proc. Natl. Acad. Sci. (USA)* (1978) 75:1929; Ito *et al.*, *J. Bacteriol.* (1983) 153:163; Kurtz *et al.*, *Mol. Cell. Biol.* (1986) 6:142; Kunze *et al.*, *J. Basic Microbiol.* (1985) 25:141; Gleeson *et al.*, *J. Gen. Microbiol.* (1986) 132:3459, Roggenkamp *et al.*, *Mol. Gen. Genet.* (1986) 202:302; Das *et al.*, *J. Bacteriol.* (1984) 158:1165; De Louvencourt *et al.*, *J. Bacteriol.* (1983) 154:737, Van den Berg *et al.*, *Bio/Technology* (1990) 8:135; Kunze *et al.*, *J. Basic Microbiol.* (1985) 25:141; Cregg *et al.*, *Mol. Cell. Biol.* (1985) 5:3376, U.S. Patent Nos. 4,837,148 and 4,929,555; Beach and Nurse, *Nature* (1981) 300:706; Davidow *et al.*, *Curr. Genet.* (1985) 10:380, Gaillardin *et al.*, *Curr. Genet.* (1985) 10:49, Ballance *et al.*, *Biochem. Biophys. Res. Commun.* (1983) 112:284-289; Tilburn *et al.*, *Gene* (1983) 26:205-221, Yelton *et al.*, *Proc. Natl. Acad. Sci. (USA)* (1984) 81:1470-1474, Kelly and Hynes, *EMBO J.* (1985) 4:475479; EP 0 244,234, and WO 91/00357.

Insect Cells. Expression of heterologous genes in insects is accomplished as described in U.S. Patent No. 4,745,051, Friesen *et al.* (1986) "The Regulation of Baculovirus Gene Expression" in: *The Molecular Biology Of Baculoviruses* (W. Doerfler, ed.), EP 0 127,839, EP 0 155,476, and Vlak *et al.*, *J. Gen. Virol.* (1988) 69:765-776, Miller *et al.*, *Ann. Rev. Microbiol.* (1988) 42:177, Carbonell *et al.*, *Gene* (1988) 73:409, Maeda *et al.*, *Nature* (1985) 315:592-594, Lebacqz-Verheyden *et al.*, *Mol. Cell. Biol.* (1988) 8:3129; Smith *et al.*, *Proc. Natl. Acad. Sci. (USA)* (1985) 82:8404, Miyajima *et al.*, *Gene* (1987) 58:273; and Martin *et al.*, *DNA* (1988) 7:99. Numerous baculoviral strains and variants and corresponding permissive insect host cells from hosts are described in Luckow *et al.*, *Bio/Technology*



(1988) 6:47-55, Miller *et al.*, Generic Engineering (Setlow, J.K. *et al.* eds.), Vol. 8 (Plenum Publishing, 1986), pp. 277-279, and Maeda *et al.*, *Nature*, (1985) 315:592-594.

Mammalian Cells. Mammalian expression is accomplished as described in Dijkema *et al.*, *EMBO J.* (1985) 4:761, Gorman *et al.*, *Proc. Natl. Acad. Sci. (USA)* 5 (1982) 79:6777, Boshart *et al.*, *Cell* (1985) 41:521 and U.S. Patent No. 4,399,216. Other features of mammalian expression are facilitated as described in Ham and Wallace, *Meth. Enz.* (1979) 58:44, Barnes and Sato, *Anal. Biochem.* (1980) 102:255, U.S. Patent Nos. 4,767,704, 4,657,866, 4,927,762, 4,560,655, WO 90/103430, WO 87/00195, and U.S. RE 30,985.

10 Polynucleotide molecules comprising the polynucleotide sequence are propagated by placing the molecule in a vector. Viral and non-viral vectors are used, including plasmids. The choice of plasmid will depend on the type of cell in which propagation is desired and the purpose of propagation. Certain vectors are useful for amplifying and making large amounts of the desired DNA sequence. Other vectors are  
15 suitable for expression in cells in culture. Still other vectors are suitable for transfer and expression in cells in a whole animal or person. The choice of appropriate vector is well within the skill of the art. Many such vectors are available commercially. The polynucleotide is inserted into a vector typically by means of DNA ligase attachment to a cleaved restriction enzyme site in the vector. Alternatively, the desired nucleotide  
20 sequence may be inserted by homologous recombination in vivo. Typically this is accomplished by attaching regions of homology to the vector on the flanks of the desired nucleotide sequence. Regions of homology are added by ligation of oligonucleotides, or by polymerase chain reaction using primers comprising both the region of homology and a portion of the desired nucleotide sequence, for example.

25 Polynucleotides are linked to regulatory sequences as appropriate to obtain the desired expression properties. These may include promoters (attached either at the 5' end of the sense strand or at the 3' end of the antisense strand), enhancers, terminators, operators, repressors, and inducers. The promoters may be regulated or constitutive. In some situations it may be desirable to use conditionally active  
30 promoters, such as tissue-specific or developmental stage-specific promoters. These are

linked to the desired nucleotide sequence using the techniques described above for linkage to vectors. Any techniques known in the art may be used.

When any of the above host cells, or other appropriate host cells or organisms, are used to replicate and/or express the polynucleotides or nucleic acids of the invention, the resulting replicated nucleic acid, RNA, expressed protein or polypeptide, is within the scope of the invention as a product of the host cell or organism. The product is recovered by any appropriate means known in the art.

Once the gene corresponding to the polypeptide is identified, its expression can be regulated in the cell to which the gene is native. For example, an endogenous gene of a cell can be regulated by an exogenous regulatory sequence as disclosed in U.S. Patent No. 5,641,670, "Protein Production and Protein Delivery."

#### Ribozymes

Trans-cleaving catalytic RNAs (ribozymes) are RNA molecules possessing endoribonuclease activity. Ribozymes are specifically designed for a particular target, and the target message must contain a specific nucleotide sequence. They are engineered to cleave any RNA species site-specifically in the background of cellular RNA. The cleavage event renders the mRNA unstable and prevents protein expression. Importantly, ribozymes can be used to inhibit expression of a gene of unknown function for the purpose of determining its function in an in vitro or in vivo context, by detecting the phenotypic effect.

One commonly used ribozyme motif is the hammerhead, for which the substrate sequence requirements are minimal. Design of the hammerhead ribozyme is disclosed in Usman *et al.*, *Current Opin. Struct. Biol.* (1996) 6:527-533. Usman also discusses the therapeutic uses of ribozymes. Ribozymes can also be prepared and used as described in Long *et al.*, *FASEB J.* (1993) 7:25; Symons, *Ann. Rev. Biochem.* (1992) 61:641; Perrotta *et al.*, *Biochem.* (1992) 31:16-17; Ojwang *et al.*, *Proc. Natl. Acad. Sci. (USA)* (1992) 89:10802-10806; and U.S. Patent No. 5,254,678. Ribozyme cleavage of HIV-I RNA is described in U.S. Patent No. 5,144,019; methods of cleaving RNA using ribozymes is described in U.S. Patent No. 5,116,742; and methods for increasing the specificity of ribozymes are described in U.S. Patent No. 5,225,337 and Koizumi *et al.*,

*Nucleic Acid Res.* (1989) 17:7059-7071. Preparation and use of ribozyme fragments in a hammerhead structure are also described by Koizumi *et al.*, *Nucleic Acids Res.* (1989) 17:7059-7071. Preparation and use of ribozyme fragments in a hairpin structure are described by Chowrira and Burke, *Nucleic Acids Res.* (1992) 20:2835. Ribozymes can  
5 also be made by rolling transcription as described in Daubendiek and Kool, *Nat. Biotechnol.* (1997) 15(3):273-277.

The hybridizing region of the ribozyme may be modified or may be prepared as a branched structure as described in Horn and Urdea, *Nucleic Acids Res.* (1989) 17:6959-67. The basic structure of the ribozymes may also be chemically  
10 altered in ways familiar to those skilled in the art, and chemically synthesized ribozymes can be administered as synthetic oligonucleotide derivatives modified by monomeric units. In a therapeutic context, liposome mediated delivery of ribozymes improves cellular uptake, as described in Birikh *et al.*, *Eur. J. Biochem.* (1997) 245:1-16.

15 Therapeutic and functional genomic applications of ribozymes proceed beginning with knowledge of a portion of the coding sequence of the gene to be inhibited. Thus, for many genes, a polynucleotide sequence as disclosed herein provides adequate sequence for constructing an effective ribozyme. A target cleavage site is selected in the target sequence, and a ribozyme is constructed based on the 5' and  
20 3' nucleotide sequences that flank the cleavage site. Retroviral vectors are engineered to express monomeric and multimeric hammerhead ribozymes targeting the mRNA of the target coding sequence. These monomeric and multimeric ribozymes are tested in vitro for an ability to cleave the target mRNA. A cell line is stably transduced with the retroviral vectors expressing the ribozymes, and the transduction is confirmed by  
25 Northern blot analysis and reverse-transcription polymerase chain reaction (RT-PCR). The cells are screened for inactivation of the target mRNA by such indicators as reduction of expression of disease markers or reduction of the gene product of the target mRNA.

Antisense

Antisense nucleic acids are designed to specifically bind to RNA, resulting in the formation of RNA-DNA or RNA-RNA hybrids, with an arrest of DNA replication, reverse transcription or messenger RNA translation. Antisense polynucleotides based on a selected sequence can interfere with expression of the corresponding gene. Antisense polynucleotides are typically generated within the cell by expression from antisense constructs that contain the antisense EST strand as the transcribed strand. Antisense polynucleotides will bind and/or interfere with the translation of the corresponding mRNA. The expression products of control cells and cells treated with the antisense construct are compared to detect the protein product of the gene corresponding to the polynucleotide. The protein is isolated and identified using routine biochemical methods.

Antisense therapy for a variety of cancers is in clinical phase and has been discussed extensively in the literature. Reed reviewed antisense therapy directed at the Bcl-2 gene in tumors; gene transfer-mediated overexpression of Bcl-2 in tumor cell lines conferred resistance to many types of cancer drugs. (Reed, J.C., *N.C.I.* (1997) 89:988-990). The potential for clinical development of antisense inhibitors of *ras* is discussed by Cowser, L.M., *Anti-Cancer Drug Design* (1997) 12:359-371. Additional important antisense targets include leukemia (Geurtz, A.M., *Anti-Cancer Drug Design* (1997) 12:341-358); human C-ref kinase (Monia, B.P., *Anti-Cancer Drug Design* (1997) 12:327-339); and protein kinase C (McGraw *et al.*, *Anti-Cancer Drug Design* (1997) 12:315-326).

Given the extensive background literature and clinical experience in antisense therapy, one skilled in the art can use selected polynucleotides of the invention as additional potential therapeutics. The choice of polynucleotide can be narrowed by first testing them for binding to "hot spot" regions of the genome of cancerous cells. If a polynucleotide is identified as binding to a "hot spot", testing the polynucleotide as an antisense compound in the corresponding cancer cells clearly is warranted.

Ogunbiyi *et al.*, *Gastroenterology* (1997) 113(3):761-766 describe prognostic use of allelic loss in colon cancer; Barks *et al.*, *Genes, Chromosomes, and*

*Cancer* (1997) 19(4):278-285 describe increased chromosome copy number detected by FISH in malignant melanoma; Nishizake *et al.*, *Genes, Chromosomes, and Cancer* (1997) 19(4):267-272 describe genetic alterations in primary breast cancer and their metastases and direct comparison using modified comparative genome hybridization; and Elo *et al.*, *Cancer Research* (1997) 57(16):3356-3359 disclose that loss of heterozygosity at 16z24.1-q24.2 is significantly associated with metastatic and aggressive behavior of prostate cancer.

#### Dominant Negative Mutations

Dominant negative mutations are readily generated for corresponding proteins that are active as homomultimers. A mutant polypeptide will interact with wild-type polypeptides (made from the other allele) and form a non-functional multimer. Thus, a mutation is in a substrate-binding domain, a catalytic domain, or a cellular localization domain. Preferably, the mutant polypeptide will be overproduced. Point mutations are made that have such an effect. In addition, fusion of different polypeptides of various lengths to the terminus of a protein can yield dominant negative mutants. General strategies are available for making dominant negative mutants. See Herskowitz, *Nature* (1987) 329:219-222. Such a technique can be used for creating a loss of function mutation, which is useful for determining the function of a protein.

#### Identification of Secreted and Membrane-Bound Polypeptides

Both secreted and membrane-bound polypeptides of the present invention are of interest. For example, levels of secreted polypeptides can be assayed conveniently in body fluids, such as blood, urine, prostatic fluid and semen. Membrane-bound polypeptides are useful for constructing vaccine antigens or inducing an immune response. Such antigens would comprise all or part of the extracellular region of the membrane-bound polypeptides.

Because both secreted and membrane-bound polypeptides comprise a fragment of contiguous hydrophobic amino acids, hydrophobicity predicting algorithms can be used to identify such polypeptides.

A signal sequence is usually encoded by both secreted and membrane-bound polypeptide genes to direct a polypeptide to the surface of the cell. The signal

sequence usually comprises a stretch of hydrophobic residues. Such signal sequences can fold into helical structures.

Membrane-bound polypeptides typically comprise at least one transmembrane region that possesses a stretch of hydrophobic amino acids that can transverse the membrane. Some transmembrane regions also exhibit a helical structure.

Hydrophobic fragments within a polypeptide can be identified by using computer algorithms. Such algorithms include Hopp & Woods, Proc. Natl. Acad. Sci. USA 78: 3824-3828 (1981); Kyte & Doolittle, J. Mol. Biol. 157: 105-132 (1982); and RAOAR algorithm, Degli Esposti *et al.*, Eur. J. Biochem. 190: 207-219 (1990).

Another method of identifying secreted and membrane-bound polypeptides is to translate the present polynucleotides, SEQ ID NO:1-339, in all six frames and determine if at least 8 contiguous hydrophobic amino acids are present. Those translated polypeptides with at least 8; more typically, 10; even more typically, 12 contiguous hydrophobic amino acids are considered to be either a putative secreted or membrane bound polypeptide. Hydrophobic amino acids include alanine, glycine, histidine, isoleucine, leucine, lysine, methionine, phenylalanine, proline, threonine, tryptophan, tyrosine, and valine.

Putative secreted and/or membrane-bound polypeptides are encoded by the sequences of the following clones: SL-5, SL-6, SL-9, SL-11, SL-13, SL-90, SL-100, SL-107, SL-124, SL-135, SL-139, SL-143, SL-152, SL-153, SL-173, and SL-177.

#### Construction of Polypeptides of the Invention and Variants Thereof

The polypeptides of the invention include those encoded by the disclosed polynucleotides. These polypeptides can also be encoded by nucleic acids that, by virtue of the degeneracy of the genetic code, are not identical in sequence to the disclosed polynucleotides. Thus, the invention includes within its scope nucleic acids comprising polynucleotides encoding a protein or polypeptide expressed by a polynucleotide having the sequence of any one of SEQ ID NO:1-339. Also within the scope of the invention are variants; variants of polypeptides include mutants, fragments, and fusions. Mutants can include amino acid substitutions, additions or deletions. The amino acid substitutions can be conservative amino acid substitutions or substitutions to

eliminate non-essential amino acids, such as to alter a glycosylation site, a phosphorylation site or an acetylation site, or to minimize misfolding by substitution or deletion of one or more cysteine residues that are not necessary for function. Conservative amino acid substitutions are those that preserve the general charge, hydrophobicity/hydrophilicity, and/or steric bulk of the amino acid substituted. For example, substitutions between the following groups are conservative: Gly/Ala, Val/Ile/Leu, Asp/Glu, Lys/Arg, Asn/Gln, Ser/Cys, Thr, and Phe/Trp/Tyr.

Cysteine-depleted muteins are variants within the scope of the invention. These variants can be constructed according to methods disclosed in U.S. Patent No. 4,959,314, "Cysteine-Depleted Muteins of Biologically Active Proteins." The patent discloses how to substitute other amino acids for cysteines, and how to determine biological activity and effect of the substitution. Such methods are suitable for proteins according to this invention that have cysteine residues suitable for such substitutions, for example to eliminate disulfide bond formation.

The protein variants described herein are encoded by polynucleotides that are within the scope of the invention. The genetic code can be used to select the appropriate codons to construct the corresponding variants.

The invention encompasses polynucleotide sequences having at least 65% sequence identity to any one of SEQ ID NOs:1-339 as determined by the Smith-Waterman homology search algorithm as implemented in MSPRCH program (Oxford Molecular) using an affine gap search with the following search parameters: gap open penalty of 12, and gap extension penalty of 1.

#### Use of the Polynucleotides as Probes, in Mapping, and in Tissue Profiling

##### Probes

Polynucleotide probes comprising at least 12 contiguous nucleotides selected from the nucleotide sequence of a polynucleotide of SEQ ID NO:1-339 are used for a variety of purposes, including identification of human chromosomes and determining transcription levels.

The nucleotide probes are labeled, for example, with a radioactive, fluorescent, biotinylated, or chemiluminescent label, and detected by well known

methods appropriate for the particular label selected. Protocols for hybridizing nucleotide probes to preparations of metaphase chromosomes are also well known in the art. A nucleotide probe will hybridize specifically to nucleotide sequences in the chromosome preparations which are complementary to the nucleotide sequence of the probe. A probe that hybridizes specifically to a polynucleotide should provide a detection signal at least 5-, 10-, or 20-fold higher than the background hybridization provided with other unrelated sequences.

In a non-limiting example, commercial programs are available for identifying regions of chromosomes commonly associated with disease, such as cancer. Polynucleotides of the invention can be used to probe these regions. For example, if through profile searching a polynucleotide is identified as corresponding to a gene encoding a kinase, its ability to bind to a cancer-related chromosomal region will suggest its role as a kinase in one or more stages of tumor cell development/growth. Although some experimentation would be required to elucidate the role, the polynucleotide constitutes a new material for isolating a specific protein that has potential for developing a cancer diagnostic or therapeutic.

Nucleotide probes are used to detect expression of a gene corresponding to the polynucleotide. For example, in Northern blots, mRNA is separated electrophoretically and contacted with a probe. A probe is detected as hybridizing to an mRNA species of a particular size. The amount of hybridization is quantitated to determine relative amounts of expression, for example under a particular condition. Probes are also used to detect products of amplification by polymerase chain reaction. The products of the reaction are hybridized to the probe and hybrids are detected. Probes are used for in situ hybridization to cells to detect expression. Probes can also be used in vivo for diagnostic detection of hybridizing sequences. Probes are typically labeled with a radioactive isotope. Other types of detectable labels may be used such as chromophores, fluors, and enzymes.

Expression of specific mRNA can vary in different cell types and can be tissue specific. This variation of mRNA levels in different cell types can be exploited with nucleic acid probe assays to determine tissue types. For example, PCR, branched DNA probe assays, or blotting techniques utilizing nucleic acid probes substantially



identical or complementary to polynucleotides listed in the Sequence Listing can determine the presence or absence of cDNA or mRNA related to the polynucleotides of the invention.

Examples of a nucleotide hybridization assay are described in Urdea *et al.*, PCT WO92/02526 and Urdea *et al.*, U.S. Patent No. 5,124,246, both incorporated  
5      herein by reference. The references describe an example of a sandwich nucleotide hybridization assay.

Alternatively, the Polymerase Chain Reaction (PCR) is another means for detecting small amounts of target nucleic acids, as described in Mullis *et al.*, *Meth. Enzymol.* (1987) 155:335-350; U.S. Patent No. 4,683,195; and U.S. Patent No. 4,683,202, all incorporated herein by reference. Two primer polynucleotides  
10      nucleotides hybridize with the target nucleic acids and are used to prime the reaction. The primers may be composed of sequence within or 3' and 5' to the polynucleotides of the Sequence Listing. Alternatively, if the primers are 3' and 5' to these polynucleotides,  
15      they need not hybridize to them or the complements. A thermostable polymerase creates copies of target nucleic acids from the primers using the original target nucleic acids as a template. After a large amount of target nucleic acids is generated by the polymerase, it is detected by methods such as Southern blots. When using the Southern blot method, the labeled probe will hybridize to a polynucleotide of the Sequence  
20      Listing or complement.

Furthermore, mRNA or cDNA can be detected by traditional blotting techniques described in Sambrook *et al.*, "Molecular Cloning: A Laboratory Manual" (New York, Cold Spring Harbor Laboratory, 1989). mRNA or cDNA generated from  
25      mRNA using a polymerase enzyme can be purified and separated using gel electrophoresis. The nucleic acids on the gel are then blotted onto a solid support, such as nitrocellulose. The solid support is exposed to a labeled probe and then washed to remove any unhybridized probe. Next, the duplexes containing the labeled probe are detected. Typically, the probe is labeled with radioactivity.

### Mapping

Polynucleotides of the present invention are used to identify a chromosome on which the corresponding gene resides. Using fluorescence in situ hybridization (FISH) on normal metaphase spreads, comparative genomic hybridization  
5 allows total genome assessment of changes in relative copy number of DNA sequences. See Schwartz and Samad, *Current Opinions in Biotechnology* (1994) 8:70-74; Kallioniemi *et al.*, *Seminars in Cancer Biology* (1993) 4:41-46; Valdes and Tagle, *Methods in Molecular Biology* (1997) 68:1, Boultonwood, ed., Human Press, Totowa, NJ.

Preparations of human metaphase chromosomes are prepared using  
10 standard cytogenetic techniques from human primary tissues or cell lines. Nucleotide probes comprising at least 12 contiguous nucleotides selected from the nucleotide sequence shown in the Sequence Listing are used to identify the corresponding chromosome. The nucleotide probes are labeled, for example, with a radioactive, fluorescent, biotinylated, or chemiluminescent label, and detected by well known  
15 methods appropriate for the particular label selected. Protocols for hybridizing nucleotide probes to preparations of metaphase chromosomes are also well known in the art. A nucleotide probe will hybridize specifically to nucleotide sequences in the chromosome preparations that are complementary to the nucleotide sequence of the probe. A probe that hybridizes specifically to a polynucleotide-related gene provides a  
20 detection signal at least 5-, 10-, or 20-fold higher than the background hybridization provided with non-EST coding sequences.

Polynucleotides are mapped to particular chromosomes using, for example, radiation hybrids or chromosome-specific hybrid panels. See Leach *et al.*, *Advances in Genetics*, (1995) 33:63-99; Walter *et al.*, *Nature Genetics* (1994) 7:22-28;  
25 Walter and Goodfellow, *Trends in Genetics* (1992) 9:352. Such mapping can be useful in identifying the function of the polynucleotide-related gene by its proximity to other genes with known function. Function can also be assigned to the related gene when particular syndromes or diseases map to the same chromosome.

### Tissue Profiling

30 The polynucleotides of the present invention can be used to determine the tissue type from which a given sample is derived. For example, a metastatic lesion

is identified by its developmental organ or tissue source by identifying the expression of a particular marker of that organ or tissue. If a polynucleotide is expressed only in a specific tissue type, and a metastatic lesion is found to express that polynucleotide, then the developmental source of the lesion has been identified. Expression of a particular polynucleotide is assayed by detection of either the corresponding mRNA or the protein product. Immunological methods, such as antibody staining, are used to detect a particular protein product. Hybridization methods may be used to detect particular mRNA species, including but not limited to in situ hybridization and Northern blotting.

#### Use of Polymorphisms

A polynucleotide will be useful in forensics, genetic analysis, mapping, and diagnostic applications if the corresponding region of a gene is polymorphic in the human population. A particular polymorphic form of the polynucleotide may be used to either identify a sample as deriving from a suspect or rule out the possibility that the sample derives from the suspect. Any means for detecting a polymorphism in a gene are used, including but not limited to electrophoresis of protein polymorphic variants, differential sensitivity to restriction enzyme cleavage, and hybridization to an allele-specific probe.

#### Use of Polynucleotides to Raise Antibodies

Expression products of a polynucleotide, the corresponding mRNA or cDNA, or the corresponding complete gene are prepared and used for raising antibodies for experimental, diagnostic, and therapeutic purposes. The polynucleotide or related cDNA is expressed as described above, and antibodies are prepared. These antibodies are specific to an epitope on the polynucleotide-encoded polypeptide, and can precipitate or bind to the corresponding native protein in a cell or tissue preparation or in a cell-free extract of an in vitro expression system.

Immunogens for raising antibodies are prepared by mixing the polypeptides encoded by the polynucleotide of the present invention with adjuvants. Alternatively, polypeptides are made as fusion proteins to larger immunogenic proteins. Polypeptides are also covalently linked to other larger immunogenic proteins, such as keyhole limpet hemocyanin. Immunogens are typically administered intradermally,

subcutaneously, or intramuscularly. Immunogens are administered to experimental animals such as rabbits, sheep, and mice, to generate antibodies. Optionally, the animal spleen cells are isolated and fused with myeloma cells to form hybridomas which secrete monoclonal antibodies. Such methods are well known in the art. According to  
5 another method known in the art, the polynucleotide is administered directly, such as by intramuscular injection, and expressed in vivo. The expressed protein generates a variety of protein-specific immune responses, including production of antibodies, comparable to administration of the protein.

Preparations of polyclonal and monoclonal antibodies specific for  
10 polynucleotide-encoded proteins and polypeptides are made using standard methods known in the art. The antibodies specifically bind to epitopes present in the polypeptides encoded by polynucleotides disclosed in the Sequence Listing. Typically, at least 6, 8, 10, or 12 contiguous amino acids are required to form an epitope. However, epitopes which involve non-contiguous amino acids may require more, for  
15 example at least 15, 25, or 50 amino acids. A short sequence of a polynucleotide may then be unsuitable for use as an epitope to raise antibodies for identifying the corresponding novel protein, because of the potential for cross-reactivity with a known protein. However, the antibodies may be useful for other purposes, particularly if they identify common structural features of a known protein and a novel polypeptide  
20 encoded by a polynucleotide of the invention.

Antibodies that specifically bind to human polynucleotide-encoded polypeptides should provide a detection signal at least 5-, 10-, or 20-fold higher than a detection signal provided with other proteins when used in Western blots or other immunochemical assays. Preferably, antibodies that specifically bind polypeptides do  
25 not detect other proteins in immunochemical assays and can immunoprecipitate EST-encoded proteins from solution. For such immunoassays, any type of samples can be used, including tissue, organs, cells, urine, blood, prostatic fluid or semen.

Of interest are antibodies to the secreted polypeptides encoded by the present polynucleotide sequences, SEQ ID NO:1-339. Antibodies to secreted  
30 polypeptides can be used to test body fluids, such as blood, urine, prostatic fluid and semen.

To test for the presence of serum antibodies to the polypeptide in a human population, human antibodies are purified by methods well known in the art. Preferably, the antibodies are affinity purified by passing antiserum over a column to which a protein, polypeptide, or fusion protein is bound. The bound antibodies can then  
5 be eluted from the column, for example using a buffer with a high salt concentration.

In addition to the antibodies discussed above, genetically engineered antibody derivatives are made, such as single chain antibodies or humanized antibodies.

Antibodies to the polypeptides encoded by one or more of SEQ ID NO:1-339 also are contemplated for therapeutic compositions and uses. For example,  
10 antibodies directed to membrane-bound polypeptides that are up-regulated in cancer, tumor progression, hyperproliferative growth, and/or accompanying biological or physical manifestations can be constructed. Antibodies can provide a useful therapeutic in inhibiting cell growth or inducing an immune reaction to cancer, tumor, or hyperproliferating cells. Typically, such antibodies are directed the extracellular  
15 regions of the membrane-bound polypeptide. The borders of such regions can be determined by identifying the location of the hydrophobic transmembrane fragment(s) in the encoded polypeptides of the present invention.

Exemplary antibodies were prepared using two sequences from clone SL-5: H<sub>2</sub>N-CGPRLPSFPCPTHEPSTGQLSK-CONH<sub>2</sub> and H<sub>2</sub>N-CKDSQGLSDFKR-  
20 NSRTTRRSYKCCONH<sub>2</sub>. Using polyclonal antibodies raised against a mixture of these polypeptides, immunohistochemistry was performed on a variety of tumor tissues and corresponding normal tissue. The results are shown in Figure 3, and discussed in the Examples. These polypeptides are useful for detecting a higher level of expression of clone SL-5 in tumor tissues.

#### 25 Use of Polynucleotides to Construct Arrays for Diagnostics

The present polynucleotide sequences and gene products are useful for determining the occurrence of cancer, tumor progression, hyperproliferative growth, and/or accompanying biological or physical manifestations. Specifically, the polynucleotides and encoded polypeptides of the instant invention can be utilized to

determine the occurrence of prostatic disorders, such as BPH or localized prostate cancer.

A number of prostatic disorders exist, including adenocarcinoma, BPH, histologic prostate cancer, prostatic intraepithelial neoplasia, clinical prostate cancer, incidental prostate cancer, and localized prostate cancer. BPH is a common prostatic disorder in men which becomes clinically manifest usually after age fifty. In BPH, hyperplastic growth of prostatic cells in the periurethral glandular tissue in the central zone of the prostate gland cause an enlarged prostate which can compress or elongate the urethra and produce symptoms of urethral obstruction that may progress to urinary retention or to a constellation of symptoms known as prostatism. A host of physical manifestations can accompany prostatic disorders including: impotency, reduced urinary flow, hesitancy in initiating voiding, postvoid dribbling, a sensation of incomplete bladder emptying, and development of bladder or high urinary tract infections.

To determine the occurrence of cancer, tumor progression, hyperproliferative growth, and/or accompanying biological or physical manifestations, the levels of polynucleotides and/or encoded polypeptides of the present invention in a sample are compared to the levels in a normal control of body tissues, cells, organs, or fluids. The normal control can include a pool of cells from a particular organ or tissue or tissues and/or cells from throughout the body. Either the immunoassays described above or the nucleic acid assays described below can be used for such measurements.

Any observed difference between the sample and normal control can indicate the occurrence of disease or disorder. Typically, if the levels of the polynucleotides and the encoded polypeptides of the present invention are higher than those found in the normal control, the results indicate the occurrence of cancer, tumor progression, hyperproliferative growth, and/or accompanying biological or physical manifestations.

In addition, the present polynucleotides can be useful to diagnose the severity as well as the occurrence of cancer, tumor progression, hyperproliferative growth, and/or accompanying biological or physical manifestations, including prostatic disorders. For example, the greater the difference observed in the sample versus the

normal control of the present polynucleotides or encoded polypeptides, the greater the severity of the disorder, in particular, when higher levels as compared to a normal control are observed.

The present polynucleotides, as shown in SEQ ID NO:1-339, were  
5 expressed at higher levels in a prostate cancer cell line versus a normal prostate epithelial cell line.

Polynucleotide arrays provide a high throughput technique that can assay a large number of polynucleotide sequences in a sample. This technology can be used as a diagnostic and as a tool to test for differential expression to determine function of  
10 an encoded protein.

To create arrays, polynucleotide probes are spotted onto a substrate in a two-dimensional matrix or array. Samples of polynucleotides can be labeled and then hybridized to the probes. Double stranded polynucleotides, comprising the labeled sample polynucleotides bound to probe polynucleotides, can be detected once the  
15 unbound portion of the sample is washed away.

The probe polynucleotides can be spotted on substrates including glass, nitrocellulose, etc. The probes can be bound to the substrate by either covalent bonds or by non-specific interactions, such as hydrophobic interactions. The sample polynucleotides can be labeled using radioactive labels, fluorophors, etc.

20 Techniques for constructing arrays and methods of using these arrays are described in EP No. 0 799 897; PCT No. WO 97/29212; PCT No. WO 97/27317; EP No. 0 785 280; PCT No. WO 97/02357; U.S. Pat. No. 5,593,839; U.S. Pat. No. 5,578,832; EP No. 0 728 520; U.S. Pat. No. 5,599,695; EP No. 0 721 016; U.S. Pat. No. 5,556,752; PCT No. WO 95/22058; and U.S. Pat. No. 5,631,734.

25 Further, arrays can be used to examine differential expression of genes and can be used to determine gene function. For example, arrays of the instant polynucleotide sequences can be used to determine if any of the EST sequences are differentially expressed between normal cells and cancer cells, for example. High expression of a particular message in a cancer cell, which is not observed in a  
30 corresponding normal cell, can indicate a cancer specific protein.

Differential Expression

The present invention also provides a method to identify abnormal or diseased tissue in a human. For polynucleotides corresponding to profiles of protein families as described above, the choice of tissue may be dictated by the putative biological function. The expression of a gene corresponding to a specific polynucleotide is compared between a first tissue that is suspected of being diseased and a second, normal tissue of the human. The normal tissue is any tissue of the human, especially those that express the polynucleotide-related gene including, but not limited to, brain, thymus, testis, heart, prostate, placenta, spleen, small intestine, skeletal muscle, pancreas, and the mucosal lining of the colon.

The polynucleotide-related genes in the two tissues are compared by any means known in the art. For example, the two genes are sequenced, and the sequence of the gene in the tissue suspected of being diseased is compared with the gene sequence in the normal tissue. The polynucleotide-related genes, or portions thereof, in the two tissues are amplified, for example using nucleotide primers based on the nucleotide sequence shown in the Sequence Listing, using the polymerase chain reaction. The amplified genes or portions of genes are hybridized to nucleotide probes selected from the same nucleotide sequence shown in the Sequence Listing. A difference in the nucleotide sequence of the polynucleotide-related gene in the tissue suspected of being diseased compared with the normal nucleotide sequence suggests a role of the polynucleotide-encoded proteins in the disease, and provides a lead for preparing a therapeutic agent. The nucleotide probes are labeled by a variety of methods, such as radiolabeling, biotinylation, or labeling with fluorescent or chemiluminescent tags, and detected by standard methods known in the art.

Alternatively, polynucleotide-related mRNA in the two tissues is compared. PolyA<sup>+</sup> RNA is isolated from the two tissues as is known in the art. For example, one of skill in the art can readily determine differences in the size or amount of polynucleotide-related mRNA transcripts between the two tissues using Northern blots and nucleotide probes selected from the nucleotide sequence shown in the Sequence Listing. Increased or decreased expression of an polynucleotide-related mRNA in a tissue sample suspected of being diseased, compared with the expression of



the same polynucleotide-related mRNA in a normal tissue, suggests that the expressed protein has a role in the disease, and also provides a lead for preparing a therapeutic agent.

Any method for analyzing proteins is used to compare two  
5 polynucleotide-encoded proteins from matched samples. The sizes of the proteins in the two tissues are compared, for example, using antibodies of the present invention to detect polynucleotide-encoded proteins in Western blots of protein extracts from the two tissues. Other changes, such as expression levels and subcellular localization, can also be detected immunologically, using antibodies to the corresponding protein. A  
10 higher or lower level of polynucleotide-encoded protein expression in a tissue suspected of being diseased, compared with the same polynucleotide-encoded protein expression level in a normal tissue, is indicative that the expressed protein has a role in the disease, and provides another lead for preparing a therapeutic agent.

Similarly, comparison of polynucleotide gene sequences or of  
15 polynucleotide gene expression products, e.g., mRNA and protein, between a human tissue that is suspected of being diseased and a normal tissue of a human, are used to follow disease progression or remission in the human. Such comparisons of polynucleotide-related genes, mRNA, or protein are made as described above.

For example, increased or decreased expression of the polynucleotide-  
20 related gene in the tissue suspected of being neoplastic can indicate the presence of neoplastic cells in the tissue. The degree of increased expression of the polynucleotide gene in the neoplastic tissue relative to expression of the gene in normal tissue, or differences in the amount of increased expression of the polynucleotide gene in the neoplastic tissue over time, is used to assess the progression of the neoplasia in that  
25 tissue or to monitor the response of the neoplastic tissue to a therapeutic protocol over time. The expression pattern of any two cell types can be compared, such as low and high metastatic tumor cell lines, or cells from tissue which have and have not been exposed to a therapeutic agent.

Screening for Peptide Analogs and Antagonists

Polypeptides encoded by the instant polynucleotides and corresponding full length genes can be used to screen peptide libraries to identify binding partners, such as receptors, from among the encoded polypeptides.

5           Such binding partners can be useful in treating cancer, tumor progression, hyperproliferative cell growth, and/or accompanying biological or physical manifestations. For example, peptides or other compounds that are capable of binding or interacting with membrane-bound polypeptides encoded by one or more of SEQ ID NO:1-339, can be useful as a therapeutic. Also, peptides or other compounds capable of  
10 altering the conformation of any of the encoded polypeptides by one or more of SEQ ID NO:1-339 can inhibit biological activity and be useful as a therapeutic.

A library of peptides may be synthesized following the methods disclosed in U.S. Pat. No. 5,010,175, and in PCT WO91/17823.

Peptide agonists or antagonists are screened using any available method,  
15 such as signal transduction, antibody binding, receptor binding, mitogenic assays, chemotaxis assays, etc. The methods described herein are presently preferred. The assay conditions ideally should resemble the conditions under which the native activity is exhibited *in vivo*, that is, under physiologic pH, temperature, and ionic strength. Suitable agonists or antagonists will exhibit strong inhibition or enhancement of the  
20 native activity at concentrations that do not cause toxic side effects in the subject. Agonists or antagonists that compete for binding to the native polypeptide may require concentrations equal to or greater than the native concentration, while inhibitors capable of binding irreversibly to the polypeptide may be added in concentrations on the order of the native concentration.

25           The end results of such screening and experimentation will be at least one novel polypeptide binding partner, such as a receptor, encoded by a cDNA polynucleotide or gene of the invention, and at least one peptide agonist or antagonist of the novel binding partner. Such agonists and antagonists can be used to modulate, enhance, or inhibit receptor function in cells to which the receptor is native, or in cells  
30 that possess the receptor as a result of genetic engineering. Further, if the novel receptor shares biologically important characteristics with a known receptor,

information about agonist/antagonist binding may help in developing improved agonists/antagonists of the known receptor.

Therapeutics, whether polynucleotide or polypeptide or small molecule, can be tested, for example, in the mouse tumor assay described in Pei *et al.*, Mol. Endo. 5 11: 433-441 (1997).

Other models for testing polynucleotides, polypeptides, antibodies, or small molecules useful for treatment include: animal models and cell lines disclosed in Bosland, *Encyclopedia of Cancer*, Volume II, pages 1283 to 1296 (1997) by Academic Press. Other useful cell lines are described in Brothman, *Encyclopedia of Cancer*, 10 Volume II, pages 1303 to 1313 (1997) by Academic Press

#### Pharmaceutical Compositions and Therapeutic Uses

Pharmaceutical compositions can comprise polypeptides, antibodies, or polynucleotides of the claimed invention. The pharmaceutical compositions will comprise a therapeutically effective amount of either polypeptides, antibodies, or 15 polynucleotides of the claimed invention.

The term "therapeutically effective amount" as used herein refers to an amount of a therapeutic agent to treat, ameliorate, or prevent a desired disease or condition, or to exhibit a detectable therapeutic or preventative effect. The effect can be detected by, for example, chemical markers or antigen levels. Therapeutic effects also 20 include reduction in physical symptoms, such as decreased body temperature. The precise effective amount for a subject will depend upon the subject's size and health, the nature and extent of the condition, and the therapeutics or combination of therapeutics selected for administration. Thus, it is not useful to specify an exact effective amount in advance. However, the effective amount for a given situation can be determined by 25 routine experimentation and is within the judgment of the clinician. Specifically, the compositions of the present invention can be used to treat, ameliorate, modulate, or prevent cancer, tumor progression, hyperproliferative cell growth and/or accompanying biological or physical manifestations, including prostatic disorders.

For purposes of the present invention, an effective dose will be from about 0.01 mg/kg to 50 mg/kg or 0.05 mg/kg to about 10 mg/kg of the polynucleotide, polypeptide or antibody compositions in the individual to which it is administered.

A pharmaceutical composition can also contain a pharmaceutically acceptable carrier. The term "pharmaceutically acceptable carrier" refers to a carrier for administration of a therapeutic agent, such as antibodies or a polypeptide, genes, and other therapeutic agents. The term refers to any pharmaceutical carrier that does not itself induce the production of antibodies harmful to the individual receiving the composition, and which may be administered without undue toxicity. Suitable carriers may be large, slowly metabolized macromolecules such as proteins, polysaccharides, polylactic acids, polyglycolic acids, polymeric amino acids, amino acid copolymers, and inactive virus particles. Such carriers are well known to those of ordinary skill in the art.

Pharmaceutically acceptable salts can be used therein, for example, mineral acid salts such as hydrochlorides, hydrobromides, phosphates, sulfates, and the like; and the salts of organic acids such as acetates, propionates, malonates, benzoates, and the like. A thorough discussion of pharmaceutically acceptable excipients is available in *Remington's Pharmaceutical Sciences* (Mack Pub. Co., N.J. 1991).

Pharmaceutically acceptable carriers in therapeutic compositions may contain liquids such as water, saline, glycerol and ethanol. Additionally, auxiliary substances, such as wetting or emulsifying agents, pH buffering substances, and the like, may be present in such vehicles. Typically, the therapeutic compositions are prepared as injectables, either as liquid solutions or suspensions; solid forms suitable for solution in, or suspension in, liquid vehicles prior to injection may also be prepared. Liposomes are included within the definition of a pharmaceutically acceptable carrier.

#### Delivery Methods

Once formulated, the polynucleotide compositions of the invention can be (1) administered directly to the subject; (2) delivered ex vivo, to cells derived from the subject; or (3) delivered in vitro for expression of recombinant proteins.

Direct delivery of the compositions will generally be accomplished by injection, either subcutaneously, intraperitoneally, intravenously or intramuscularly, or delivered to the interstitial space of a tissue. The compositions can also be administered into a tumor or lesion. Other modes of administration include oral and pulmonary administration, suppositories, and transdermal applications, needles, and gene guns or hypodermic syringes. Dosage treatment may be a single dose schedule or a multiple dose schedule.

Methods for the ex vivo delivery and reimplantation of transformed cells into a subject are known in the art and described in e.g., International Publication No. WO 93/14778. Examples of cells useful in ex vivo applications include, for example, stem cells, particularly hematopoietic, lymph cells, macrophages, dendritic cells, or tumor cells.

Generally, delivery of nucleic acids for both ex vivo and in vitro applications can be accomplished by, for example, dextran-mediated transfection, calcium phosphate precipitation, polybrene mediated transfection, protoplast fusion, electroporation, encapsulation of the polynucleotide(s) in liposomes, and direct microinjection of the DNA into nuclei, all well known in the art.

If a polynucleotide-related gene correlates with a proliferative disorder, such as neoplasia, dysplasia, and hyperplasia, the disorder may be amenable to treatment by administration of a therapeutic agent based on the polynucleotide or corresponding polypeptide.

Preparation of antisense polypeptides is discussed above. Neoplasias that are treated with the antisense composition include, but are not limited to, cervical cancers, melanomas, colorectal adenocarcinomas, Wilms' tumor, retinoblastoma, sarcomas, myosarcomas, lung carcinomas, leukemias, such as chronic myelogenous leukemia, promyelocytic leukemia, monocytic leukemia, and myeloid leukemia, and lymphomas, such as histiocytic lymphoma. Proliferative disorders that are treated with the therapeutic composition include disorders such as anhydric hereditary ectodermal dysplasia, congenital alveolar dysplasia, epithelial dysplasia of the cervix, fibrous dysplasia of bone, and mammary dysplasia. Hyperplasias, for example, endometrial, adrenal, breast, prostate, or thyroid hyperplasias or pseudoepitheliomatous hyperplasia

of the skin, are treated with antisense therapeutic compositions. Even in disorders in which mutations in the corresponding gene are not implicated, downregulation or inhibition of gene expression can have therapeutic application. For example, decreasing gene expression can help to suppress tumors in which enhanced expression of the gene is implicated.

Both the dose of the antisense composition and the means of administration are determined based on the specific qualities of the therapeutic composition, the condition, age, and weight of the patient, the progression of the disease, and other relevant factors. Administration of the therapeutic antisense agents of the invention includes local or systemic administration, including injection, oral administration, particle gun or catheterized administration, and topical administration. Preferably, the therapeutic antisense composition contains an expression construct comprising a promoter and a polynucleotide segment of at least 12, 22, 25, 30, or 35 contiguous nucleotides of the antisense strand. Within the expression construct, the polynucleotide segment is located downstream from the promoter, and transcription of the polynucleotide segment initiates at the promoter.

Various methods are used to administer the therapeutic composition directly to a specific site in the body. For example, a small metastatic lesion is located and the therapeutic composition injected several times in several different locations within the body of tumor. Alternatively, arteries which serve a tumor are identified, and the therapeutic composition injected into such an artery, in order to deliver the composition directly into the tumor. A tumor that has a necrotic center is aspirated and the composition injected directly into the now empty center of the tumor. The antisense composition is directly administered to the surface of the tumor, for example, by topical application of the composition. X-ray imaging is used to assist in certain of the above delivery methods.

Receptor-mediated targeted delivery of therapeutic compositions containing an antisense polynucleotide, subgenomic polynucleotides, or antibodies to specific tissues is also used. Receptor-mediated DNA delivery techniques are described in, for example, Findeis *et al.*, *Trends in Biotechnol.* (1993) 11:202-205; Chiou *et al.*, (1994) *Gene Therapeutics: Methods And Applications Of Direct Gene Transfer* (J.A.

Wolff, ed.); Wu & Wu, *J. Biol. Chem.* (1988) 263:621-24; Wu *et al.*, *J. Biol. Chem.* (1994) 269:542-46; Zenke *et al.*, *Proc. Natl. Acad. Sci. (USA)* (1990) 87:3655-59; Wu *et al.*, *J. Biol. Chem.* (1991) 266:339-42. Preferably, receptor-mediated targeted delivery of therapeutic compositions containing antibodies of the invention is used to  
5 deliver the antibodies to specific tissue.

Therapeutic compositions containing antisense subgenomic polynucleotides are administered in a range of about 100 ng to about 200 mg of polynucleotides for local administration in a gene therapy protocol. Concentration ranges of about 500 ng to about 50 mg, about 1 µg to about 2 mg, about 5 µg to about  
10 500 µg, and about 20 µg to about 100 µg of polynucleotides can also be used during a gene therapy protocol. Factors such as method of action and efficacy of transformation and expression are considerations which will affect the dosage required for ultimate efficacy of the antisense subgenomic polynucleotides. Where greater expression is desired over a larger area of tissue, larger amounts of EST antisense subgenomic  
15 polynucleotides or the same amounts readministered in a successive protocol of administrations, or several administrations to different adjacent or close tissue portions of, for example, a tumor site, may be required to effect a positive therapeutic outcome. In all cases, routine experimentation in clinical trials will determine specific ranges for optimal therapeutic effect. A more complete description of gene therapy vectors,  
20 especially retroviral vectors, is contained in U.S. Serial No. 08/869,309, which is expressly incorporated herein, and in section G below.

For genes encoding polypeptides or proteins with anti-inflammatory activity, suitable use, doses, and administration are described in U.S. Patent No. 5,654,173, incorporated herein by reference. Therapeutic agents also include antibodies  
25 to proteins and polypeptides, as described in U.S. Patent No. 5,654,173.

#### Gene Therapy

The therapeutic polynucleotides and polypeptides of the present invention may be utilized in gene delivery vehicles. The gene delivery vehicle may be of viral or non-viral origin (see generally, Jolly, *Cancer Gene Therapy* (1994) 1:51-64;  
30 Kimura, *Human Gene Therapy* (1994) 5:845-852; Connelly, *Human Gene Therapy*

(1995) 1:185-193; and Kaplitt, *Nature Genetics* (1994) 6:148-153). Gene therapy vehicles for delivery of constructs including a coding sequence of a therapeutic of the invention can be administered either locally or systemically. These constructs can utilize viral or non-viral vector approaches. Expression of such coding sequences can be induced using endogenous mammalian or heterologous promoters. Expression of the coding sequence can be either constitutive or regulated.

The present invention can employ recombinant retroviruses which are constructed to carry or express a selected nucleic acid molecule of interest. Retrovirus vectors that can be employed include those described in EP 0 415 731; WO 90/07936; WO 94/03622; WO 93/25698; WO 93/25234; U.S. Patent No. 5, 219,740; WO 93/11230; WO 93/10218; Vile and Hart, *Cancer Res.* (1993) 53:3860-3864; Vile and Hart, *Cancer Res.* (1993) 53:962-967; Ram et al., *Cancer Res.* (1993) 53:83-88; Takamiya et al., *J. Neurosci. Res.* (1992) 33:493-503; Baba et al., *J. Neurosurg.* (1993) 79:729-735; U.S. Patent no. 4,777,127; GB Patent No. 2,200,651; and EP 0 345 242. Preferred recombinant retroviruses include those described in WO 91/02805.

Packaging cell lines suitable for use with the above-described retroviral vector constructs may be readily prepared (see PCT publications WO 95/30763 and WO 92/05266), and used to create producer cell lines (also termed vector cell lines) for the production of recombinant vector particles. Within particularly preferred embodiments of the invention, packaging cell lines are made from human (such as HT1080 cells) or mink parent cell lines, thereby allowing production of recombinant retroviruses that can survive inactivation in human serum.

The present invention also employs alphavirus-based vectors that can function as gene delivery vehicles. Such vectors can be constructed from a wide variety of alphaviruses, including, for example, Sindbis virus vectors, Semliki forest virus (ATCC VR-67; ATCC VR-1247), Ross River virus (ATCC VR-373; ATCC VR-1246) and Venezuelan equine encephalitis virus (ATCC VR-923; ATCC VR-1250; ATCC VR 1249; ATCC VR-532). Representative examples of such vector systems include those described in U.S. Patent Nos. 5,091,309; 5,217,879; and 5,185,440; and PCT Publication Nos. WO 92/10578; WO 94/21792; WO 95/27069; WO 95/27044; and WO 95/07994.



Gene delivery vehicles of the present invention can also employ parvovirus such as adeno-associated virus (AAV) vectors. Representative examples include the AAV vectors disclosed by Srivastava in WO 93/09239, Samulski et al., *J. Vir.* (1989) 63:3822-3828; Mendelson et al., *Virol.* (1988) 166:154-165; and Flotte et al., *PNAS* (1993) 90:10613-10617.

Representative examples of adenoviral vectors include those described by Berkner, *Biotechniques* (1988) 6:616-627; Rosenfeld et al., *Science* (1991) 252:431-434; WO 93/19191; Kolls et al., *PNAS* (1994) 91:215-219; Kass-Eisler et al., *PNAS* (1993) 90:11498-11502; Guzman et al., *Circulation* (1993) 88:2838-2848; Guzman et al., *Cir. Res.* (1993) 73:1202-1207; Zabner et al., *Cell* (1993) 75:207-216; Li et al., *Hum. Gene Ther.* (1993) 4:403-409; Cailaud et al., *Eur. J. Neurosci.* (1993) 5:1287-1291; Vincent et al., *Nat. Genet.* (1993) 5:130-134; Jaffe et al., *Nat. Genet.* (1992) 1:372-378; and Levrero et al., *Gene* (1991) 101:195-202. Exemplary adenoviral gene therapy vectors employable in this invention also include those described in WO 94/12649, WO 93/03769; WO 93/19191; WO 94/28938; WO 95/11984 and WO 95/00655. Administration of DNA linked to killed adenovirus as described in Curiel, *Hum. Gene Ther.* (1992) 3:147-154 may be employed.

Other gene delivery vehicles and methods may be employed, including polycationic condensed DNA linked or unlinked to killed adenovirus alone, for example Curiel, *Hum. Gene Ther.* (1992) 3:147-154; ligand linked DNA, for example see Wu, *J. Biol. Chem.* (1989) 264:16985-16987; eukaryotic cell delivery vehicles cells, for example see U.S. Serial No. 08/240,030, filed May 9, 1994, and U.S. Serial No. 08/404,796; deposition of photopolymerized hydrogel materials; hand-held gene transfer particle gun, as described in U.S. Patent No. 5,149,655; ionizing radiation as described in U.S. Patent No. 5,206,152 and in WO92/11033; nucleic charge neutralization or fusion with cell membranes. Additional approaches are described in Philip, *Mol. Cell Biol.* (1994) 14:2411-2418, and in Woffendin, *Proc. Natl. Acad. Sci.* (1994) 91:1581-1585.

Naked DNA may also be employed. Exemplary naked DNA introduction methods are described in WO 90/11092 and U.S. Patent No. 5,580,859.

Further non-viral delivery suitable for use includes mechanical delivery systems such as the approach described in Woffendin *et al.*, *Proc. Natl. Acad. Sci. USA* (1994) 91(24):11581-11585.

#### Computer-Related Embodiments

5           In general, a library of polynucleotides is a collection of sequence information, which information is provided in either biochemical form (*e.g.*, as a collection of polynucleotide molecules), or in electronic form (*e.g.*, as a collection of polynucleotide sequences stored in a computer-readable form, as in a computer system and/or as part of a computer program). The sequence information of the  
10 polynucleotides can be used in a variety of ways, *e.g.*, as a resource for gene discovery, as a representation of sequences expressed in a selected cell type (*e.g.*, cell type markers), and/or as markers of a given disease or disease state. In general, a disease marker is a representation of a gene product that is present in all cells affected by disease either at an increased or decreased level relative to a normal cell (*e.g.*, a cell of  
15 the same or similar type that is not substantially affected by disease).

The nucleotide sequence information of the library can be embodied in any suitable form, *e.g.*, electronic or biochemical forms. For example, a library of sequence information embodied in electronic form comprises an accessible computer data file (or, in biochemical form, a collection of nucleic acid molecules) that contains  
20 the representative nucleotide sequences of genes that are differentially expressed (*e.g.*, overexpressed or underexpressed) as between, for example, a cancerous cell and a normal cell. Biochemical embodiments of the library include a collection of nucleic acids that have the sequences of the genes in the library, where the nucleic acids can correspond to the entire gene in the library or to a fragment thereof, as described in  
25 greater detail below.

The polynucleotide libraries of the subject invention generally comprise sequence information of a plurality of polynucleotide sequences, where at least one of the polynucleotides has a sequence of any of SEQ ID NOs:1-339. By plurality is meant at least 2, usually at least 3 and can include up to all of SEQ ID NOs:1-339. The length  
30 and number of polynucleotides in the library will vary with the nature of the library,

*e.g.*, if the library is an oligonucleotide array, a cDNA array, a computer database of the sequence information, etc.

Where the library is an electronic library, the nucleic acid sequence information can be present in a variety of media. "Media" refers to a manufacture,  
5 other than an isolated nucleic acid molecule, that contains the sequence information of the present invention. Such a manufacture provides the genome sequence or a subset thereof in a form that can be examined by means not directly applicable to the sequence as it exists in a nucleic acid. For example, the nucleotide sequence of the present invention, *e.g.*, the nucleic acid sequences of any of the polynucleotides of SEQ ID  
10 NOs:1-339, can be recorded on computer readable media, *e.g.*, any medium that can be read and accessed directly by a computer. Such media include, but are not limited to: magnetic storage media, such as a floppy disc, a hard disc storage medium, and a magnetic tape; optical storage media such as CD-ROM; electrical storage media such as RAM and ROM; and hybrids of these categories such as magnetic/optical storage  
15 media. One of skill in the art can readily appreciate how any of the presently known computer readable mediums can be used to create a manufacture comprising a recording of the present sequence information. "Recorded" refers to a process for storing information on computer readable medium, using any such methods as known in the art. Any convenient data storage structure can be chosen, based on the means used to access  
20 the stored information. A variety of data processor programs and formats can be used for storage, *e.g.*, word processing text file, database format, *etc.* In addition to the sequence information, electronic versions of the libraries of the invention can be provided in conjunction or connection with other computer-readable information and/or other types of computer-readable files (*e.g.*, searchable files, executable files, *etc.*,  
25 including, but not limited to, for example, search program software, *etc.*).

By providing the nucleotide sequence in computer readable form, the information can be accessed for a variety of purposes. Computer software to access sequence information is publicly available. For example, the BLAST (Altschul et al., *supra.*) and BLAZE (Brutlag et al. *Comp. Chem.* (1993) 17:203) search algorithms on a  
30 Sybase system can be used to identify open reading frames (ORFs) within the genome that contain homology to ORFs from other organisms.

As used herein, "a computer-based system" refers to the hardware means, software means, and data storage means used to analyze the nucleotide sequence information of the present invention. The minimum hardware of the computer-based systems of the present invention comprises a central processing unit (CPU), input means, output means, and data storage means. A skilled artisan can readily appreciate that any one of the currently available computer-based system are suitable for use in the present invention. The data storage means can comprise any manufacture comprising a recording of the present sequence information as described above, or a memory access means that can access such a manufacture.

10 "Search means" refers to one or more programs implemented on the computer-based system, to compare a target sequence or target structural motif, or expression levels of a polynucleotide in a sample, with the stored sequence information. Search means can be used to identify fragments or regions of the genome that match a particular target sequence or target motif. A variety of known algorithms are publicly  
15 known and commercially available, *e.g.*, MacPattern (EMBL), BLASTN and BLASTX (NCBI). A "target sequence" can be any polynucleotide or amino acid sequence of six or more contiguous nucleotides or two or more amino acids, preferably from about 10 to 100 amino acids or from about 30 to 300 nt. A variety of comparing means can be used to accomplish comparison of sequence information from a sample (*e.g.*, to analyze  
20 target sequences, target motifs, or relative expression levels) with the data storage means. A skilled artisan can readily recognize that any one of the publicly available homology search programs can be used as the search means for the computer based systems of the present invention to accomplish comparison of target sequences and motifs. Computer programs to analyze expression levels in a sample and in controls are  
25 also known in the art.

A "target structural motif," or "target motif," refers to any rationally selected sequence or combination of sequences in which the sequence(s) are chosen based on a three-dimensional configuration that is formed upon the folding of the target motif, or on consensus sequences of regulatory or active sites. There are a variety of  
30 target motifs known in the art. Protein target motifs include, but are not limited to, enzyme active sites and signal sequences. Nucleic acid target motifs include, but are

not limited to, hairpin structures, promoter sequences and other expression elements such as binding sites for transcription factors.

A variety of structural formats for the input and output means can be used to input and output the information in the computer-based systems of the present invention. One format for an output means ranks the relative expression levels of different polynucleotides. Such presentation provides a skilled artisan with a ranking of relative expression levels to determine a gene expression profile..

As discussed above, the "library" of the invention also encompasses biochemical libraries of the polynucleotides of SEQ ID NOs:1-339, *e.g.*, collections of nucleic acids representing the provided polynucleotides. The biochemical libraries can take a variety of forms, *e.g.*, a solution of cDNAs, a pattern of probe nucleic acids stably associated with a surface of a solid support (*i.e.*, an array) and the like. Of particular interest are nucleic acid arrays in which one or more of SEQ ID NOs:1-339 is represented on the array. By array is meant a an article of manufacture that has at least a substrate with at least two distinct nucleic acid targets on one of its surfaces, where the number of distinct nucleic acids can be considerably higher, typically being at least 10 nt, usually at least 20 nt and often at least 25 nt. A variety of different array formats have been developed and are known to those of skill in the art. The arrays of the subject invention find use in a variety of applications, including gene expression analysis, drug screening, mutation analysis and the like, as disclosed in the above-listed exemplary patent documents.

In addition to the above nucleic acid libraries, analogous libraries of polypeptides are also provided, where the where the polypeptides of the library will represent at least a portion of the polypeptides encoded by SEQ ID NOs:1-339.

The present invention will now be illustrated by reference to the following examples which set forth particularly advantageous embodiments. However, it should be noted that these embodiments are illustrative and are not to be construed as restricting the invention in any way.

## EXAMPLES

### EXAMPLE 1

#### ISOLATION OF THE POLYNUCLEOTIDES

cDNA libraries were prepared from PrEC, normal human prostate  
5 epithelial cells, and LNCaP, a cell line derived from human lymph node metastasized  
prostate cancer. PrEC cells are available from Clonetics, San Diego, California, U.S.A.  
LNCaP cells are available from the ATCC, Manassas, Virginia, U.S.A.

Using a PCR technique and reagents available from Clontech, Palo Alto,  
California, USA (CLONTECH PCR-Select™), mRNA up-regulated in LNCaP was  
10 captured and amplified. The captured polynucleotide inserts were inserted in the  
pCR2.1 vector, available from Invitrogen, Carlsbad, California, U.S.A. The vectors  
with the inserts were transformed into *E. coli* cells.

### EXAMPLE 2

#### CONFIRMATION OF DIFFERENTIAL DISPLAY

15 Ten clones were chosen at random, and up-regulation of the sequences of  
these clone inserts in LNCaP versus PrEC cells was confirmed by Northern blot. Dot  
blots were performed on 168 clones and up-regulation was confirmed.

Further, sequencing of the clones showed that prostate specific antigen  
(PSA) and prostate specific membrane antigen (PSMA) sequences were isolated by the  
20 process described in Example 1. A good correlation between increased serum PSA  
levels and prostate tumors has been observed. PSMA, a cell surface antigen, is another  
observed marker for prostate cancer. See Bosland, Encyclopedia of Cancer, Volume II,  
pages 1283-1296 (1997), Academic Press. Thus, the data confirm that up-regulated  
mRNA characteristic of gene expression in prostate cancer was cloned by the method of  
25 Example 1.

### EXAMPLE 3

#### POLYNUCLEOTIDE SEQUENCES

The sequence results are shown in SEQ ID NO:1-339. For the sequencing experiments, each clone was named SL-1 to SL-209. Inserts from some of the clones were sequenced more than once. Each sequence was designated a unique combination of two names. This unique combination is shown in Table 1 in columns 2 and 3, denoted as "Sequence Name" and "Other Seq Name."

Table 1 indicates all the sequences that correspond to each clone. Thus, all the sequences corresponding to clone SL-3, for example, are grouped together in Table 1.

Clones also were assigned cluster numbers. See column 4 of Table 1. Clones with the same cluster number generally comprise sequence derived from the same mRNA transcripts.

The last column of Table 1 indicates the nearest neighbor as determined by an alignment to sequences in a publicly available database.

A consensus for the sequence of each clone can be constructed by aligning the corresponding sequences or reverse complements thereof. Table 1 lists the names of all the sequences that correspond to each clone, and Table 2 shows the specific sequence that corresponds to each unique combination of Sequence Name and/or "Other Seq. Name."

The entire insert of some clones may not be represented by the sequences presented in Table 2. For example, the 5' and 3' ends of a clone insert may have been sequenced, but the sequences do not overlap. Additional sequence corresponding to the clone insert can be isolated and determined by constructing probes or primers from the sequences presented in Table 2 and a library of mRNA or cDNA from a prostate cell or prostate cancer cell line using the methods described above.

## EXAMPLE 4

## RESULTS OF PUBLIC DATABASE SEARCH

Both the nucleotide sequence and translations of masked sequences shown in the Sequence Listing were aligned with individual sequences that were publicly available. Similarity with individual sequences is used to determine the activity of the polypeptides encoded by genes corresponding to the sequences referred to in Table 2.

The sequences in SEQ ID NO:1-333 first were masked to remove the pCR2.1 vector sequences. Masking was performed by aligning the pCR2.1 sequences with each of SEQ ID NO:1-333 using the BLASTN program. Any sequence that produced an alignment with a score of less than 0.1 was masked.

A BLASTN vs. Genbank search was performed using the masked sequences with search parameters of greater than 99% overlap, 99% identity, and a p value of less than  $1 \times 10^{-40}$  and this resulted in discard of sequences. Sequences from this search also were discarded if the inclusive parameters were met, but the sequence was ribosomal or vector-derived.

The resulting sequences from the previous search were classified into three groups (1, 2 and 3 below) and searched in a BLASTX vs. NRP (non-redundant proteins) database search: (1) unknown (no hits in the Genbank search), (2) weak similarity (greater than 45% identity and p value of less than  $1 \times 10^{-5}$ ), and (3) high similarity (greater than 60% overlap, greater than 80% identity, and p value less than  $1 \times 10^{-5}$ ). This search resulted in discard of sequences as having greater than 99% overlap, greater than 99% identity, and p value of less than  $1 \times 10^{-40}$ .

The remaining sequences were classified as unknown (no hits), weak similarity, and high similarity (parameters as above). Two searches were performed on this set of sequences. First, a BLAST vs. EST database search resulted in discard of sequences with greater than 99% overlap, greater than 99% similarity and a p value of less than  $1 \times 10^{-40}$ ; sequences with a p value of less than  $1 \times 10^{-65}$  when compared to a database sequence of human origin were also excluded. Second, a BLASTN vs. Patent



GeneSeq database resulted in discard of sequences with greater than 99% identity; p value less than  $1 \times 10^{-40}$ ; greater than 99% overlap.

The masked sequences were translated in all six reading frames to determine the best alignment with the individual sequences. These amino acid sequences and nucleotide sequences are referred, generally, as query sequences, which are aligned with the individual sequences.

Query and individual sequences were aligned using the BLAST programs, available over the world wide web.

Table 2 shows the results of the alignments. Table 2 refers to each sequence by its Sequence Name and/or "Other Seq. Name" and includes the accession numbers and descriptions of nearest neighbors from the Genbank and Non-Redundant Protein searches.

The activity of the polypeptide encoded by the sequences referred to in Table 2 is expected to be the same or similar to the nearest neighbor reported in Table 2. The accession number of the nearest neighbor is reported, providing a reference to the activities exhibited by the nearest neighbor. The search program and database used for the alignment also are indicated as well as a calculation of the p value.

Full length sequences or fragments of the polynucleotide sequences of the nearest neighbors can be used as probes and primers to identify and isolate the full length sequence corresponding to sequence referred to in Table 2. Although full length sequences can be obtained from the cell lines described above, the nearest neighbors can indicate a tissue or cell type to be used to construct a library for the full-length sequences of those referred to in Table 2.

The sequences referred to in Table 2 and the translations thereof may be human homologs of known genes of other species or novel allelic variants of known human genes. In such cases, these new human sequences may be suitable as diagnostics, prognostics, or therapeutics. As diagnostics, the human sequences exhibit greater specificity in detecting and differentiating human cell lines and types than homologs of other species. The human polypeptides are less likely to be immunogenic when administered to humans than homologs from other species. Further, on

administration to humans, the encoded polypeptides can show greater specificity or can be better regulated by other human proteins than are homologs from other species.

In the preferred embodiments of the invention, the sequences shown in SEQ ID NO:1-339 consisting of the unmasked regions should be considered as the source of probes and primers, as these sequences are most representative of the distinguishing portions of these polynucleotides.

Generally, the masking itself does not influence the search results as shown in Table 2, except to eliminate multiple "hits" based on similarity to repetitive regions common to more than one polypeptide.

10

## EXAMPLE 5

## ANALYSIS OF CLONES SL-5, SL-9, SL-68, AND SL-173

## Clone SL-5 (SEQ ID NO:14 and 334)

By Northern Blot, a 4.1 kb band was observed in expressed in normal prostate, testis, and lymphoblastic leukemia. It was also expressed in the cell lines LNCaP, and MDA PCa 2A and 2B (metastatic prostate cells into bone, androgen sensitive). Additional sequence corresponding to SEQ ID NO:14 is disclosed in SEQ ID NO:334.

Expression of SL-5 was investigated in normal and tumor tissues using immunohistochemistry. Antibody was prepared using two sequences from clone SL-5: H<sub>2</sub>N-CGPRLPSFPCPTHEPSTGQLSK-CONH<sub>2</sub> and H<sub>2</sub>N-CKDSQGLSDFKRNSRTTTR-RSYKCCONH<sub>2</sub>. Using polyclonal antibodies raised against a mixture of these polypeptides, immunohistochemistry (IHC) was performed on a variety of tumor tissues and corresponding normal tissue. The methods used were those described for the Manual IHC Protocol using BioGenex Reagents and Zymed AEC Solution, as known in the art. As shown in Figure 3, SL-5 was detected in the following tumor tissue: adrenal, ovary, breast, colon, prostate, uterus, cervix, kidney, pancreas, liver, stomach, lymphoma, seminoma, thyroid, melanoma, basal cell carcinoma, and other tumor tissues. Where comparative normal tissue was available, expression in the

corresponding normal tissue was lower than in the tumor tissue. Thus, SL-5 is a useful marker for cancer tissue including prostate.

Clone SL-9 (SEQ ID NO:18)

By Northern Blot, sequences from SL-9 were specifically expressed in  
5 normal spleen and normal peripheral blood leukocyte. Expression of the SL-9 sequences was observed also in promyelocytic leukemia HL-60, chronic mylogenous leukemia K-562, lymphoblastic leukemia MOLT-4, Burkitt's lymphoma, and Raji cancer cell lines by Northern Blot.

Clone SL-173 (SEQ ID NO:153 and 154)

10 By Northern Blot, SL173 was found in every cancer cell line tested. Sequence from SL-173 has similarity to and may be a human homologue of the rat tumor transforming gene, which was found in the pituitary and described in Pei *et al.*, Mol. Endo. 11: 433-441 (1997) and Pei, J. Biol. Chem. 273(9): 5219-5225 (1998). When the rat tumor transforming gene was injected in NIH3T3cells, the cells became  
15 transformed and were able to form a tumor when injected into mice. (Pei *et al.*, Mol. Endo. supra).

Clone SL-68 (SEQ ID NO:218 and 219)

Two transcripts, 2.6kb and 4.3kb, were observed in normal spleen, thymus and peripheral blood leukocytes, as well as in promyelocytic leukemia, chronic  
20 myelogenous leukemia and lymphoblastic leukemia. The 4.3kb transcript was seen in normal testis, colon, Hela cell S3, colorectal adenocarcinoma and melanoma. The 2.6kb band was found in the following prostate cell lines: PC-3 (metastatic to bone, androgen insensitive); DU-145 (metastatic to brain, androgen insensitive); FFpz (primary cells derived from normal prostate epithelium); Ffca (primary cells derived  
25 from Gleason Grade 3 prostate cancer epithelium); and WO-CA (primary cells derived from Gleason Grade 4 prostate cancer epithelium). However, higher expression was observed in LNCaP, MDA PCa 2A, HPV-7 and HPV-10. A 9.5kb transcript was also observed in MDA PCa 2A and 2B. Additional sequence corresponding to this clone is disclosed in SEQ ID NO:335.

## Clone SL69 (SEQ ID NO:220 and 221)

A weak 2.6kb band was observed in normal testis as well as in chronic myelogenous leukemia and lymphoblastic leukemia. Additional sequence corresponding to this clone is disclosed in SEQ ID NO:336.

5

## Clone SL86 (SEQ ID NO:242 and 243)

The sequence was expressed in normal prostate (2.7kb and 1.1kb) and testis (1.1kb). Low expression was observed in a cancer cell line blot using the cell lines described above. 1.1kb and 2.7kb transcripts were observed in the cell lines LNCaP, and MDA PCa 2a and 2b (metastatic prostate cells into bone, androgen sensitive), and weak 1.1kb transcript was seen in HPV-7 (immortalized normal prostate cells) and HPV-10 (immortalized prostate cancer cells). Additional sequence corresponding to this clone is disclosed in SEQ ID NO:337.

## 15 Clone SL195 (SEQ ID NO:288 and 289)

The sequence was expressed in normal prostate as a 1.9kb transcript, and the same transcript also observed in all cell lines in the cancer cell line blot described above. It was more heavily expressed in HeLa cell S3 and chronic myelogenous leukemia, and was expressed in all prostate cell lines. Additional sequence corresponding to this clone is disclosed in SEQ ID NO:338.

20

## Clone SL197 (SEQ ID NO:292 and 293)

Two transcripts, 2.4kb and 4kb, were observed in normal prostate and testis. Two very weak 2.4kb signals were observed in HeLa cell S3 and chronic myelogenous leukemia. The 2.4kb transcript was expressed in all prostate cell lines. A 4kb transcript was found in LNCaP, MDA PCa 2A and 2B. Additional sequence corresponding to this clone is disclosed in SEQ ID NO:339.

25

Those skilled in the art will recognize, or be able to ascertain, using not more than routine experimentation, many equivalents to the specific embodiments of

30

the invention described herein. Such specific embodiments and equivalents are intended to be encompassed by the following claims.

All patents, published patent applications and publications cited herein are incorporated by reference as if set forth fully herein.

TABLE 1

Clone #	Sequence Name	Other Seq Name	Clone # Cluster #	Nearest Neighbor If Available
SL-001	SL001 SL001M13	19sl1	SL-001	S60754 (VNTR locus DXZ4)
SL-002	SL002	20sl2	SL-002	L07935 HUMVNTRA
SL-003	SL003 SL003 SL003 SL003 SL003	21sl3 35-sl3-1m13 35-sl3-1t7 37-sl3-1m13 39-sl3-1m13	SL-003	AB006625 - KIAA0287 gene
SL-004	SL004 SL004M13	22sl4	SL-004	
SL-005	SL005 SL005	23sl5 30sl11b	SL-005	
SL-006	SL006 SL006M13	24sl6	SL-006	cosmid genomic clone
SL-007	SL007 SL007 SL007 SL007 SL007 SL007 SL007	25sl7 28-sl7-1m13 28-sl7-1t7 30-sl7-1m13 30-sl7-1t7 32-sl7-1m13 32-sl7-1t7	SL-003	AB006625- KIAA0287
SL-008	SL008	26sl8	SL-008	HUMP65 E=9e-62 L-plastin. Phosphoprotein (p65)
SL-009	SL009 SL009M13	27sl9		
SL-010	SL010	28sl10	SL-005	
SL-011	SL011	29sl11a	SL-011	HSU10685 - MAGE-10 Gene
SL-012	SL012	31sl12	SL-011	HSU10685 - MAGE-10 Gene
SL-013	SL013	32sl13		
SL-015	SL015 SL015 SL015 SL015	34sl15 46-sl15-2m13 47-sl15-2m13 47-sl15-2t7	SL-015	HSU90336 - PEG3 mRNA  HSMRNAEN - Enkephalinase
SL-016	SL016 SL016 SL016 SL016 SL016 SL016	10-sl16-1m13 10-sl16-1t7 11-sl16-1m13 18-sl16-2m13 18-sl16-2t7 19-sl16-2m13	SL-016	

TABLE 1

	SL016	19-sl16-2t7		
	SL016	20-sl16-2m13		
	SL016	20-sl16-2t7		
	SL016	35sl16		
	SL016	9-sl16-1t7		
SL-017	SL017	36sl17	SL-017	HUMORF01 - KIAA0101 gene
SL-028	SL028m13	B1	SL-028	
	SL028t7	B1		
SL-029	SL029m13	WE97.C1.M13	SL-029	
	SL029t7	WE97.C1.T7		
SL-032	SL032m13	WE97.D1.M13	SL-032	HSTPI1G TPI1 gene for triosephosphate isomerase.
	SL032t7	WE97.D1.T7		
SL-036	SL036m13	WE97.E1.M13	SL-036	HSU81599 homeodomain protein HOXB13
	SL036t7	WE97.E1.T7		
SL-037	SL037m13	C1	SL-005	
	SL037m13	WE97.F1.M13		
	SL037t7	C1		
SL-040	SL040m13	D1	SL-040	
	SL040t7	D1		
SL-041	SL041m13	E1	SL-016	
	SL041m13	WE97.H1.M13		
	SL041t7	E1		
	SL041t7	WE97.H1.T7		
SL-042	SL042m13	WE97.A2.M13	SL-008	HUMP65 phosphoprotein (p65) HUMPLASTA L-plastin gene
	SL042t7	WE97.A2.T7		
SL-044	SL044m13	WE97.B2.M13	SL-016	
	SL044t7	WE97.B2.T7		
SL-045	SL045m13	WE97.C2.M13	SL-045	
	SL045t7	WE97.C2.T7		genomic DNA
SL-046	SL046m13	WE97.D2.M13	SL-046	
	SL046t7	WE97.D2.T7		
SL-047	SL047m13	WE97.E2.M13	SL-047	
	SL047t7	WE97.E2.T7		
SL-050	SL050m13	WE97.F2.M13	SL-050	
	SL050t7	WE97.F2.T7		
SL-051	SL051m13	WE97.G2.M13	SL-051	
	SL051t7	WE97.G2.T7		
SL-054	SL054m13	WE97.H2.M13	SL-054	
	SL054t7	WE97.H2.T7		
SL-055	SL055m13	F1	SL-050	
	SL055t7	F1		
	SL055t7	WE97.A3.T7		

TABLE 1

SL-057	SL057m13 WE97.C3.M13 SL057t7 WE97.C3.T7	SL-057	
SL-058	SL058m13 WE97.D3.M13 SL058t7 WE97.D3.T7	SL-058	HSLRPR1GN leucine-rich primary response protein 1.
SL-061	SL061m13 WE97.E3.M13 SL061t7 WE97.E3.T7	SL-028	
SL-062	SL062m13 WE97.F3.M13 SL062t7 WE97.F3.T7	SL-028	
SL-064	SL064m13 WE97.G3.M13 SL064t7 WE97.G3.T7	SL-064	
SL-066	SL066m13 WE97.H3.M13 SL066t7 WE97.H3.T7	SL-016	
SL-067	SL067m13 H1 SL067t7 H1 SL067t7 WE97.A4.T7	SL-067	HUMKIAAP - KIAA0095 gene
SL-068	SL068m13 WE97.B4.M13 SL068t7 WE97.B4.T7	SL-068	
SL-069	SL069m13 WE97.C4.M13 SL069t7 WE97.C4.T7	SL-069	
SL-071	SL071m13 WE97.D4.M13 SL071t7 WE97.D4.T7	SL-071	
SL-072	SL072m13 WE97.E4.M13 SL072t7 WE97.E4.T7	SL-015	HSU90336 Human PEG3 mRNA AB006625 KIAA0287
SL-074	SL074m13 WE97.F4.M13 SL074t7 WE97.F4.T7	SL-074	
SL-075	SL075m13 WE97.G4.M13 SL075t7 WE97.G4.T7	SL-075	
SL-076	SL076m13 WE97.H4.M13 SL076t7 WE97.H4.T7	SL-076	
SL-077	SL077m13 WE97.A5.M13 SL077t7 WE97.A5.T7	SL-077	
SL-078	SL078m13 A2 SL078m13 WE97.B5.M13 SL078t7 A2	SL-016	
SL-081	SL081m13 WE97.E5.M13 SL081t7 WE97.E5.T7	SL-003	BAC clone (with Alu) AB006625 - KIAA0287 gene
SL-083	SL083m13 WE97.G5.M13 SL083t7 WE97.G5.T7	SL-083	
SL-084	SL084m13 WE97.H5.M13 SL084t7 WE97.H5.T7	SL-084	(HS295C6 Human DNA sequence)



TABLE 1

SL-085	SL085m13 WE97.A6.M13	SL-085	
SL-086	SL086m13 WE97.B6.M13	SL-086	
	SL086t7 WE97.B6.T7		
SL-087	SL087m13 WE97.C6.M13	SL-087	EST and Mus musculus
	SL087t7 WE97.C6.T7		ras-GTPase-activating protein
SL-088	SL088m13 WE97.D6.M13	SL-015	HSU90336 Human PEG3
	SL088t7 WE97.D6.T7		& AB006625 - KIAA0287 gene
SL-089	SL089m13 WE97.E6.M13	SL-089	
	SL089t7 WE97.E6.T7		
SL-090	SL090m13 D2	SL-090	
	SL090t7 D2		
SL-091	SL091m13 WE97.G6.M13	SL-091	
	SL091t7 WE97.G6.T7		
SL-092	SL092m13 WE97.H6.M13	SL-092	HUMPRKACB testis-specific
	SL092t7 WE97.H6.T7		cAMP-dependent protein kinase
			catalytic subunit (C-beta isoform)
SL-093	SL093m13 E2	SL-008	HUMLPLSTN2 L-plastin gene
	SL093t7 E2		
SL-094	SL094m13 WE97.B7.M13	SL-094	
	SL094t7 WE97.B7.T7		
SL-095	SL095m13 WE97.C7.M13	SL-003	AB006625 - KIAA0287
	SL095t7 WE97.C7.T7		
SL-096	SL096m13 WE97.D7.M13	SL-096	
	SL096t7 WE97.D7.T7		
SL-097	SL097m13	SL-071	
	SL097t7		
SL-098	SL098m13	SL-098	
	SL098t7		
SL-099	SL099m13	SL-016	
	SL099t7		
SL-100	SL100m13 F2	SL-085	SL100m13 Alu - 2e-71
	SL100m13		
	SL100t7 F2		
	SL100t7		
SL-102	SL102m13	SL-102	HSRPL32 ribosomal protein L32
	SL102t7		
SL-103	SL103m13	SL-103	
	SL103t7		
SL-105	SL105m13	SL-105	
	SL105t7		
SL-106	SL106m13	SL-106	
	SL106t7		
SL-107	SL107m13	SL-016?	SL107m13 -Alu - 2e-78
	SL107t7		
SL-110	SL110m13	SL-003	AB006625- KIAA0287 gene

TABLE 1

	SL110t7		
SL-111	SL111m13 SL111t7	SL-111	
SL-112	SL112m13 SL112t7	SL-112	
SL-115	SL115m13 SL115t7	SL-115	D86322 - calmegin
SL-116	SL116m13 SL116t7	SL-116	
SL-117	SL117m13 SL117t7	SL-117	HUMNUMB23 = HUMNPM Human nucleolar protein (B23) or Human nucleophosmin
SL-118	SL118m13 SL118t7	SL-118	
SL-119	SL119m13 SL119t7	SL-119	
SL-120	SL120m13 SL120t7	SL-046	
SL-121	SL121m13 SL121t7	SL-016	
SL-122	SL122m13 SL122t7	SL-122	HUMPRKACB testis-specific cAMP-dependent protein kinase catalytic subunit (C-beta isoform)
SL-124	SL124m13 SL124t7	SL-016	
SL-125	SL125m13 SL125t7	SL-125	HSU19145 GAGE-4 (US 5,648,226)
SL-127	SL127m13 SL127t7	SL-127	
SL-128	SL128m13 SL128t7	SL-005	
SL-130	SL130m13 SL130t7	SL-130	
SL-132	SL132m13 SL132t7	SL-011	HSU10685 MAGE-10 gene (US 5,612,201)
SL-134	SL134m13 SL134t7	SL-134	HSC70P Hsc 70 pseudogene (Heat Shock protein)
SL-135	SL135m13 SL135t7	SL-135	
SL-138	SL138m13 SL138t7	SL-051	
SL-139	SL139m13 SL139t7	SL-139	Homo sapiens cosmid
SL-142	SL142m13 SL142t7	SL-005	

TABLE 1

SL-143	SL143m13 SL143t7	SL-143	Genomic clone AC003978
SL-144	SL144m13 SL144t7	SL-144	E= 3-81
SL-145	SL145m13	SL-003	AB006625- KIAA0287 gene
SL-146	SL146m13 WE97.E7.M13 SL146t7 WE97.E7.T7	SL-146	
SL-147	SL147m13 G2 SL147m13 WE97.F7.M13 SL147t7 G2	SL-147	(1) HSCDC2R Human cell cycle control gene CDC2 (2) HSU29091 selenium-binding
SL-148	SL148m13 WE97.G7.M13 SL148t7 WE97.G7.T7	SL-016	
SL-149	SL149m13 H2 SL149t7 H2	SL-149	
SL-150	SL150m13 A3 SL150t7 A3	SL-150	"Human DNA sequence"
SL-151	SL151m13 WE97.B8.M13 SL151t7 WE97.B8.T7	SL-151	Genomic frag
SL-152	SL152m13 WE97.C8.M13 SL152t7 WE97.C8.T7	SL-152	
SL-153	SL153m13 WE97.D8.M13 SL153t7 WE97.D8.T7	SL-153	
SL-154	SL154t7 WE97.E8.T7	SL-154	HUMPAR5R - PAR-5 mRNA
SL-155	SL155m13 WE97.F8.M13 SL155t7 WE97.F8.T7	SL-028	SL155m13 - EST only in Mouse
SL-156	SL156m13 WE97.G8.M13 SL156t7 WE97.G8.T7	SL-016	
SL-157	SL157m13 WE97.H8.M13 SL157t7 WE97.H8.T7	SL-157	
SL-158	SL158m13 WE97.A9.M13 SL158t7 WE97.A9.T7	SL-011	HSU10685 MAGE-10 gene (US 5,612,201)
SL-159	SL159m13 WE97.B9.M13 SL159t7 WE97.B9.T7	SL-159	Chromosome 11 pac
SL-160	SL160m13 WE97.C9.M13 SL160t7 WE97.C9.T7	SL-051	
SL-161	SL161m13 WE97.D9.M13 SL161t7 WE97.D9.T7	SL-161	HUMP65 phosphoprotein (p65) HUMPLASTA L-plastin gene
SL-162	SL162m13 B3 SL162t7 B3	SL-162	
SL-163	SL163m13 WE97.F9.M13 SL163t7 WE97.F9.T7	SL-016	HSU75330 -NCAM21
SL-164	SL164m13 WE97.G9.M13 SL164t7 WE97.G9.T7	SL-016	
SL-165	SL165m13 WE97.H9.M13 SL165t7 WE97.H9.T7	SL-165	(genomic seq)

TABLE 1

SL-166	SL166m13 C3 SL166t7 C3 SL166t7 WE97.A10.T7	SL-166	
SL-167	SL167m13 WE97.B10.M13 SL167t7 WE97.B10.T7	SL-167	HUMLPAC109 lipoprotein-associated coagulation inhibitor (LACI) gene
SL-168	SL168m13 WE97.C10.M13 SL168t7 WE97.C10.T7	SL-168	
SL-169	SL169m13 WE97.D10.M13 SL169t7 WE97.D10.T7	SL-169	HUMNEUROF oligodendrocyte myelin glycoprotein (OMG)
SL-170	SL170m13 WE97.E10.M13 SL170t7 WE97.E10.T7	SL-170	
SL-171	SL171m13 WE97.F10.M13 SL171t7 WE97.F10.T7	SL-171	AB002374 - KIAA0376 gene
SL-172	SL172m13 WE97.G10.M13 SL172t7 WE97.G10.T7	SL-016	
SL-173	SL173m13 WE97.H10.M13 SL173t7 WE97.H10.T7	SL-173	
SL-174	SL174m13 D3 SL174t7 D3	SL-174	
SL-175	SL175m13 WE97.B11.M13 SL175t7 WE97.B11.T7	SL-016	
SL-176	SL176m13 WE97.C11.M13 SL176t7 WE97.C11.T7	SL-176	
SL-177	SL177m13 WE97.D11.M13 SL177t7 WE97.D11.T7	SL-177	
SL-178	SL178m13 WE97.E11.M13 SL178t7 WE97.E11.T7	SL-178	Human BAC clone
SL-179	SL179m13 WE97.F11.M13 SL179t7 WE97.F11.T7	SL-179	
SL-181	SL181m13 WE97.H11.M13 SL181t7 WE97.H11.T7	SL-181	
SL-182	SL182m13 F3 SL182m13 WE97.A12.M13 SL182t7 F3	SL-182	HUMAPEA apurinic/apyrimidinic endonuclease (HAP1h) HSHAP1MR Human HAP1 mRNA
SL-183	SL183m13 WE97.B12.M13 SL183t7 WE97.B12.T7	SL-046	
SL-184	SL184m13 WE97.C12.M13 SL184t7 WE97.C12.T7	SL-016	
SL-186	SL186m13 WE97.D12.M13 SL186t7 WE97.D12.T7	SL-186	
SL-187	SL187m13 WE97.E12.M13 SL187t7 WE97.E12.T7	SL-187	
SL-188	SL188m13 G3 SL188t7 G3 SL188t7 WE97.F12.T7	SL-188	

TABLE 1

SL-191	SL191m13 WE97.H12.M13 SL191t7 WE97.H12.T7	SL-181	
SL-192	SL192m13 H3 SL192t7 H3	SL-192	Human DNA sequence"
SL-193	SL193m13 A4 SL193t7 A4	SL-193	
SL-194	SL194m13 B4 SL194t7 B4	SL-194	HUMKG1DD - KIAA0098 gene
SL-195	SL195m13 C4 SL195t7 C4	SL-195	
SL-196	SL196m13 D4 SL196t7 D4	SL-196	HUMMAOAAA monoamine oxidase (MAOA)
SL-197	SL197m13 E4 SL197t7 E4	SL-197	
SL-198	SL198m13 F4 SL198t7 F4	SL-198	
SL-199	SL199m13 G4 SL199t7 G4	SL-016	
SL-201	SL201m13 A5 SL201t7 A5	SL-028	(Mouse ESTs only)
SL-202	SL202m13 B5 SL202t7 B5	SL-202	mitochondrial genome & ESTs(?)
SL-203	SL203m13 C5 SL203t7 C5	SL-040	
SL-204	SL204m13 D5 SL204t7 D5	SL-204	
SL-205	SL205m13 E5 SL205t7 E5	SL-205	
SL-206	SL206m13 F5 SL206t7 F5	SL-015	AB006625 - KIAA0287 gene
SL-207	SL207m13 G5 SL207t7 G5	SL-207	HUMFOLMES - DHFR dihydrofolate reductase gene
SL-208	SL208m13 H5 SL208t7 H5	SL-208	AB011165 - KIAA0593
SL-209	SL209m13 A6 SL209t7 A6	SL-209	

batch 1
batch 2
batch 3
batch 4

TABLE 2

Seq. Name and/or Other Seq. Name.	BlastN vs. Gb (nearest neighbor)		BlastX vs. NRPdb (nearest neighbor)		P(V)	Hit Description	P(V)
	Accession	Hit Description	Accession	Hit Description			
10-s116-117	<NONE>	<NONE>	<NONE>	<NONE>	<NONE>	<NONE>	<NONE>
18-s116-217	<NONE>	<NONE>					
22s14	AC004601	*** SEQUENCING IN PROGRESS ... Human Chromosome 11p14.3 PAC clone pDJ939m16; HTGS phase 1, 3 unordered pieces. Homo sapiens chromosome 16 BAC clone CIT987SK-270G1 complete sequence.	MT_PLEPL	METALLOTHIONEIN (MT)>PIR2:S30567 metallothionein - plaice>GP:PPMMET_1 P.platessa mRNA for metallothionein	0.32		0.32
27s19	AF001549	Homo sapiens Rad51-interacting protein mRNA, complete cds.	VP1_BPCHP	PROTEIN VP1 (ORF1)	1.0		1.0
32s113	AF006259	Homo sapiens Rad51-interacting protein mRNA, complete cds.	ALU6_HUMAN	III ALU SUBFAMILY SP WARNING ENTRY IIII Mus musculus RAD51-binding protein RAB22 mRNA, complete cds	3.5e-07		3.5e-07
39-s13-1m13	U07083	Human prostatic acid phosphatase (ACPP) gene, exon 1.	MMU93583_1	Mus musculus transcription factor Genesis mRNA, complete cds; A winged helix retinoid- acid hepatocyte nuclear factor 3/forkhead transcription factor; HNF3/FH transcription factor	1.2e-13		1.2e-13
47-s115-217	108056	Sequence 2 from Patent EP 0272928.	MMU41047_1		0.36		0.36
			<NONE>	<NONE>	<NONE>		<NONE>
s1102m13	AC004453	Homo sapiens PAC clone DJ0844F09 from 7p12-p13, complete sequence.	SIK1_YEAST	SIK1 PROTEIN>PIR2:S48550 hypothetical protein YLR197w - yeast (Saccharomyces cerevisiae)>GP:SCU20237_1 Saccharomyces cerevisiae SIK1p (SIK1) gene, complete cds; Possible microtubule binding protein; similar to GenBank Accession Number U14913	2.7e-09		2.7e-09
s1103m13	AC002542	Human BAC clone RG114A06 from 7q31, complete sequence.	MUSIGHV01B_1	Mouse CBA/J Ig heavy chain V1 region pseudogene, 5' end; Ig heavy chain precursor; Possible pseudogene	0.30		0.30
s110317	AC002542	Human BAC clone RG114A06 from 7q31, complete sequence.	MUSIGHV01B_1	Mouse CBA/J Ig heavy chain V1 region pseudogene, 5' end; Ig heavy chain precursor; Possible pseudogene	0.25		0.25

TABLE 2

Seq. Name and/or Other Seq. Name.	BlastN vs. Gb (nearest neighbor)		BlastX vs. NRPdb (nearest neighbor)		P(V)
	Accession	Hit Description	Accession	Hit Description	
sl10617	148979	Sequence 6 from patent US 5627054.	Y694_METJA	HYPOTHETICAL PROTEIN MJ0694>PIR2:F64386 hypothetical protein MJ0694 - Methanococcus jannaschii>GP:U67516_8 Methanococcus jannaschii section 58 of 150 of the complete genome; Conserved hypothetical protein; Similar to SP:Q12499 PID:1420682 PI	1.5e-08
sl10717.fsa	AL021385	Human DNA sequence *** SEQUENCING IN PROGRESS *** from clone 269M15; HTGS phase 1.	ALU4_HUMAN	IIII ALU SUBFAMILY SB2 WARNING ENTRY IIII	0.45
sl12417	B31344	HS-1008-A2-A05-MF-abiCIT Human Genomic Sperm Library C Homo sapiens genomic clone Plate=CT 330 Col=10 Row=A, genomic survey sequence.	ALU7_HUMAN	IIII ALU SUBFAMILY SQ WARNING ENTRY IIII	1.2e-14
sl12717	Z83818	Human DNA sequence from PAC 138A5 on chromosome X contains ESTs.		HYPOTHETICAL TRP-ASP REPEATS CONTAINING PROTEIN C18B11.10 IN CHROMOSOME I>PIR2:S58306 hypothetical protein SPAC18B11.10 - fission yeast (Schizosaccharomyces pombe)>GP:SPAC18B11_10 S.pombe chromosome I cosmid c18B11; Unknown; SPAC18B11.10, le	0.97
sl135m13	AC003959	Homo sapiens chromosome 5, P1 clone 1029A7 (LBNL H15), complete sequence.	YA3A_SCHPO	Homo sapiens BAC clone RG013N12 from 7q31.2, complete sequence; H_RG013N12;gw;1335199;a	0.016
sl13517	AC003044	Human PAC clone DJ1055C04 from 7p15-7p21, complete sequence.	AC004416.5	A; Italian transcribed sequence; clone VDV28- 22792, 3' end; similar to nonspecific lipid- transfer protein precursor	0.77
sl144m13	AC003684	Homo sapiens; HTGS phase 1, 53 unordered pieces. *** SEQUENCING IN PROGRESS *** Human Chromosome 7 BAC Clone 155b01; HTGS phase 1, 11 unordered pieces.	ATTS0669.1		<NONE>
sl14417	AC004089		<NONE>	<NONE>	<NONE>

TABLE 2

Seq. Name and/or Other Seq. Name.	BlasI vs. Gb (nearest neighbor)		BlasIX vs. NRPdb (nearest neighbor)		P(V)
	Accession	Hit Description	Accession	Hit Description	
SL149m13 WE97.H7.M13	M87923	Human carcinoma cell-derived Alu RNA transcript, clone CE12.	ALU2_HUMAN	IIII ALU SUBFAMILY SB WARNING ENTRY IIII	4.7e-17
SL150m13 WE 97.A8.M13	AF019122	Homo sapiens DNA polymerase gamma (POLG) gene, nuclear gene encoding mitochondrial protein, partial sequence, genomic survey sequence.	<NONE>	<NONE>	<NONE>
SL152m13	AF022186	Cyanidium caldarium RK1 chloroplast sequence.	<NONE>	<NONE>	<NONE>
SL15217	AC002524	Homo sapiens Xp22 BAC GSHB-257G1 (Genome Systems BAC Library) complete sequence.	F40201	artifact-warning sequence (translated ALU class F) - human	1.2e-05
SL153m13	U29895	Human 4-hydroxyphenylpyruvate-dioxygenase gene, complete cds.	C40201	artifact-warning sequence (translated ALU class C) - human	0.49
SL15317	U29895	Human 4-hydroxyphenylpyruvate-dioxygenase gene, complete cds.	A46010	X-linked retinopathy protein (C-terminal, clone XEH.8c) - human (fragment)>GP:S58722_1 X-linked retinopathy protein [3' region, clone XEH.8c] [human, mRNA Partial, 390 nt]; This sequence comes from Fig. 5	0.070
SL155m13	Z99286	Caenorhabditis elegans cosmid Y7A9C, complete sequence.	POLG_PRSVH	GENOME POLYPROTEIN (CONTAINS: N-TERMINAL PROTEIN; HELPER COMPONENT PROTEINASE (EC 3.4.22.-) (HC-PRO); 42-50 KD PROTEIN; CYTOPLASMIC INCLUSION PROTEIN (CI); 6 KD PROTEIN; NUCLEAR INCLUSION PROTEIN A (NI- A) (EC 3.4.22.-) (49K PROTEINASE) (49	1.0
SL157m13	U91321	Human Chromosome 16 BAC clone CIT987SK-A-363E6, complete sequence.	ALU1_HUMAN	IIII ALU SUBFAMILY J WARNING ENTRY IIII	4.5e-11



TABLE 2

Seq. Name and/or Other Seq. Name.	BlasIN vs. Gb (nearest neighbor)			BlasIX vs. NRPdb (nearest neighbor)		
	Accession	Hit Description	P(V)	Accession	Hit Description	P(V)
SL16017	<NONE>	<NONE>	<NONE>	CA34_HUMAN	PROCOLLAGEN ALPHA 3(IV) CHAIN PRECURSOR>PIR1:CGHU3B collagen alpha 3(IV) chain precursor, long splice form - human>GPN:HSCOL4A3_1 H;sapiens COL4A3 mRNA; Type IV collagen alpha 3 chain>GP:HSCOL4A3_1 H;sapiens COL4A3 mRNA; Type IV collagen alp 36.4 KD PROLINE-RICH	0.99
SL16217 WE97.E9.T7	X58263	Mouse microsatellite marker DNA D4SMH6b, 4. *** SEQUENCING IN PROGRESS *** Homo sapiens chromosome 17, clone hRPC.1171_L_10; HTGS phase 1, 4 unordered pieces.	0.0029	PRF1_LYCES	PROTEIN>PIR2:S19129 proline-rich protein TPRP-F1 - tomato>GP:LETPRPF1_1 L; esculentum TPRP-F1 gene for a proline rich protein	0.99
SL16917	AC004687	<NONE>	2.5e-11	<NONE>	<NONE>	<NONE>
SL17417	<NONE>	<NONE>	<NONE>	A54895	mucin 2, intestinal/tracheal - rat (fragment)	0.13
SL176m13	Z73424	Caenorhabditis elegans cosmid C44B9, complete sequence.	0.00084	<NONE>	<NONE>	<NONE>
SL17617	Z83119	Caenorhabditis elegans cosmid R05H10, complete sequence.	0.38	<NONE>	<NONE>	<NONE>
SL177m13	AL022279	Caenorhabditis elegans DNA *** SEQUENCING IN PROGRESS *** from clone Y43F11; HTGS phase 1. Human Chromosome X, complete sequence.	0.00064	ANX7_BOVIN	ANNEXIN VII (SYNEXIN) (FRAGMENT)>PIR2:A27695 synexin - bovine (fragment)	0.0018
SL17717	AC002416	<NONE>	1.8e-17	<NONE>	<NONE>	<NONE>
SL179m13	AF039052	Caenorhabditis elegans cosmid T22D1.	0.030	CMU23045_8	Cepaea nemoralis complete mitochondrial genome; ATPase subunit 8>GP:CMU23045_8 Cepaea nemoralis complete mitochondrial genome; ATPase subunit 8	0.98
SL17917	L41631	Mus musculus glucokinase gene, complete cds.	0.017	<NONE>	<NONE>	<NONE>

TABLE 2

BlastN vs. Gb (nearest neighbor)			BlastX vs. NRPdb (nearest neighbor)			
Seq. Name and/or Other Seq. Name.	Accession	Hit Description	P(V)	Accession	Hit Description	P(V)
SL181m13	Z98867	Caenorhabditis elegans DNA *** SEQUENCING IN PROGRESS *** from clone Y52B11; HTGS phase 1.	0.017	PS0245	hypothetical protein (cpcG4 region) - Anabaena sp. (strain PCC 7120) (fragment)>GP:ANARODCORA_6 Anabaena sp: cpcF gene, 3' end; cpcG1, cpcG2, cpcG3, and cpcG4 genes, complete cds; and unknown ORF, 3' end	0.99
SL181i7	Z98867	Caenorhabditis elegans DNA *** SEQUENCING IN PROGRESS *** from clone Y52B11; HTGS phase 1.	0.018	PS0245	hypothetical protein (cpcG4 region) - Anabaena sp. (strain PCC 7120) (fragment)>GP:ANARODCORA_6 Anabaena sp: cpcF gene, 3' end; cpcG1, cpcG2, cpcG3, and cpcG4 genes, complete cds; and unknown ORF, 3' end	0.99
SL191m13	Z98867	Caenorhabditis elegans DNA *** SEQUENCING IN PROGRESS *** from clone Y52B11; HTGS phase 1. *** SEQUENCING IN PROGRESS *** Homo sapiens chromosome #16q12.1+16q22/23+1q11/12 BAC clone CIT987SK-A-427H10; HTGS phase 1, 15 unordered pieces.	0.019	<NONE>	<NONE>	<NONE>
SL195m13	AC004626	*** SEQUENCING IN PROGRESS *** Homo sapiens chromosome #16q12.1+16q22/23+1q11/12 BAC clone CIT987SK-A-427H10; HTGS phase 1, 15 unordered pieces.	0.050	HSU55091_1	Human isolate HR015 T cell receptor V-beta complementarity determining region 3 mRNA, partial cds	1.0
SL195i7	AC004626	*** SEQUENCING IN PROGRESS *** Homo sapiens chromosome #16q12.1+16q22/23+1q11/12 BAC clone CIT987SK-A-427H10; HTGS phase 1, 15 unordered pieces.	0.053	S54078	probable membrane protein YPR056w - yeast (Saccharomyces cerevisiae)>GP:SC9499X_12 S:cerevisiae chromosome XVI cosmid 9499; Unknown; YP9499;12, unknown, len:338, CAl: 0:12, similar to S44455, transcription factor BTF2 chain p34, (29:3% identit	0.64
SL197m13	AF003134	Caenorhabditis elegans cosmid ZC581.	0.99	<NONE>	<NONE>	<NONE>
SL197i7	U43400	Human herpesvirus-7 (tIHV7) J1, complete virion genome.	0.99	<NONE>	<NONE>	<NONE>
SL197	V00073	Sindbis virus sequence complementary to 26S messenger RNA.	3.2e-09	<NONE>	<NONE>	<NONE>

TABLE 2

Seq. Name and/or Other Seq. Name.	BlastN vs. Gb (nearest neighbor)		BlastX vs. NRPdb (nearest neighbor)		P(V)
	Accession	Hit Description	Accession	Hit Description	
SL201m13	AB001684	Chlorella vulgaris C-27 chloroplast DNA, complete sequence.	SIU05069_1	Simian immunodeficiency virus SIVRHE543 clone 5-4 envelope glycoprotein (env) gene, V1 region, partial cds	1.0
SL201i7	AB001684	Chlorella vulgaris C-27 chloroplast DNA, complete sequence.	HUMLTBP_1	Homo sapiens (clone H 4,4) latent transforming growth factor- beta binding protein (L TBP-1L) gene, partial cds; Latent transforming growth factor-binding protein	1.0
SL204m13	Z49910	Caenorhabditis elegans cosmid F44G4, complete sequence.	CEF44G4_1	Caenorhabditis elegans cosmid F44G4, complete sequence; F44G4;1; Similarity to 35:1KD hypothetical yeast protein (Swiss Prot accession number P38805); cDNA EST CEMSE65F comes from this	5.6e-72
SL204i7	Z49910	Caenorhabditis elegans cosmid F44G4, complete sequence.	CEF44G4_1	Caenorhabditis elegans cosmid F44G4, complete sequence; F44G4;1; Similarity to 35:1KD hypothetical yeast protein (Swiss Prot accession number P38805); cDNA EST CEMSE65F comes from this	2.3e-71
SL28m13	<NONE>	<NONE>	<NONE>	<NONE>	<NONE>
SL28i7	Z84469	Human DNA sequence *** SEQUENCING IN PROGRESS *** from clone 390O13; HTGS phase 1.	<NONE>	<NONE>	<NONE>
SL29m13	AC004465	Homo sapiens 12q24 PAC RPC13-363118 (Roswell Park Cancer Institute Human PAC library) complete sequence.	MCRA_METFE	METHYL-COENZYME M REDUCTASE ALPHA SUBUNIT (EC 1.8.-.-)>GP:MEFMCRC_5 M;fervidus methyl coenzyme M reductase component C genes mcrA, mcrB, mcrC, mcrD, and mcrG, complete cds; Methyl coenzyme M reductase alpha subunit	0.95
SL29i7	AC004465	Homo sapiens 12q24 PAC RPC13-363118 (Roswell Park Cancer Institute Human PAC library) complete sequence.	MCRA_METFE	METHYL-COENZYME M REDUCTASE ALPHA SUBUNIT (EC 1.8.-.-)>GP:MEFMCRC_5 M;fervidus methyl coenzyme M reductase component C genes mcrA, mcrB, mcrC, mcrD, and mcrG, complete cds; Methyl coenzyme M reductase alpha subunit	0.97

TABLE 2

Seq. Name and/or Other Seq. Name.	BlastN vs. Gb (nearest neighbor)		BlastX vs. NRPdb (nearest neighbor)		P(V)
	Accession	Hit Description	Accession	Hit Description	
SL4M13	D42085	Human mRNA for KIAA0095 gene, complete cds.	HUMKIAAP_1	Human mRNA for KIAA0095 gene, complete cds; KIAA0095 gene is related to S;carevisiae NIC96 gene	3.6e-12
SL54m13	Z68694	Human DNA sequence from cosmid cU177E8, between markers DXS366 and DXS87 on chromosome X.	HUMF8L1A_1	Human factor VIII gene L1 element insertion DNA; Unknown protein; ORF; putative	1.2e-12
SL6117	AB001684	Chlorella vulgaris C-27 chloroplast DNA, complete sequence.	AF004841_1	Homo sapiens CDO mRNA, complete cds; Immunoglobulin superfamily member; contains fibronectin type III-like domain	1.0
SL6217	AC004153	... SEQUENCING IN PROGRESS ... Plasmodium falciparum 3D7 chromosome 12 PFYAC812 genomic sequence; HTGS phase 1, 26 unordered pieces.	<NONE>	<NONE>	<NONE>
SL68m13	AC004157	... SEQUENCING IN PROGRESS ... Plasmodium falciparum 3D7 chromosome 12 PFYAC293 genomic sequence; HTGS phase 1, 18 unordered pieces.	<NONE>	<NONE>	<NONE>
SL6817	AJ226619	Ciona intestinalis genomic fragment, clone 17H6, genomic survey sequence.	<NONE>	<NONE>	<NONE>
SL69m13.1sa	Z22789	H. sapiens CA/GT repeat polymorphism sequence.	AE001179_2	Borrelia burgdorferi (section 65 of 70) of the complete genome; Competence protein F, putative; Similar to GB:M59751 SP:P31773 PID:1573409 percent identity: 27.00; identified by sequence	1.0
SL6917	AL010138	Plasmodium falciparum DNA ... SEQUENCING IN PROGRESS ... from contig 3-66, complete sequence.	AE001179_2	Borrelia burgdorferi (section 65 of 70) of the complete genome; Competence protein F, putative; Similar to GB:M59751 SP:P31773 PID:1573409 percent identity: 27.00; identified by sequence	1.0
SL75m13	AC002536	Human Chromosome 11 pac pDJ1075120, complete sequence.	BTRNAT3_1	B;taurus mRNA for complete thrombospondin	0.0074

TABLE 2

BlasIN vs. Gb (nearest neighbor)		BlasIX vs. NRPdb (nearest neighbor)				
Seq. Name and/or Other Seq. Name.	Accession	Hit Description	P(V)	Accession	Hit Description	P(V)
SL7717	AF012886	Buchnera aphidicola UDP-N-acetylmuramate: L-alanine ligase (murC157), D-alanine: D-alanine ligase (ddlB), cell division protein (ftsA), cell septation protein (ftsZ), and pls genes, complete cds.	0.40	<NONE>	<NONE>	<NONE>
SL86m13	Z69790	Caenorhabditis elegans cosmid F33C8, complete sequence.	0.020	<NONE>	<NONE>	<NONE>
SL8617	U39368	Acanthonevra sp. 16S ribosomal RNA gene, mitochondrial gene encoding mitochondrial RNA, partial sequence.	0.054	<NONE>	<NONE>	<NONE>
SL90m13	<NONE>	<NONE>	<NONE>	<NONE>	<NONE>	<NONE>
SL94m13	X95276	P.falciparum complete gene map of plastid-like DNA (IR-B).	0.0096	SHFORF_1	Shigella sonnei DNA for 26 ORFs, complete cds; ORF1	0.15
SL9417	AL022313	Human DNA sequence *** SEQUENCING IN PROGRESS *** from clone 1119A7; HTGS phase 1.	6.0e-18	A46010	X-linked retinopathy protein (C-terminal, clone XEH.8c) - human (fragment)>GP:S58722_1 X-linked retinopathy protein (3' region, clone XEH.8c) [human, mRNA Partial, 390 nt]; This sequence comes from Fig. 5	5.7e-07

## CLAIMS

## WE CLAIM:

1. A method of diagnosing cancer, tumor progression, hyperproliferative cell growth or accompanying biological and physical manifestations comprising:
  - (a) providing a polynucleotide probe that comprises a sequence capable of hybridizing to any one of the sequences shown in SEQ ID NO:1-339 or complement thereof;
  - (b) contacting a biological sample for diagnosis with said probe under hybridizing conditions that permit formation of a duplex; and
  - (c) determining the presence of said duplex.
2. The method of claim 1, wherein said polynucleotide probe comprises at least eight contiguous nucleotides of any of SEQ ID NO:1-339 or complement thereof.
3. The method of claim 2, wherein said polynucleotide probe comprises 8 contiguous nucleotides of the sequences of the clones selected from the group consisting of SL-5, SL-6, SL-9, SL-11, SL-13, SL-68, SL-69, SL-86, SL-90, SL-100, SL-107, SL-124, SL-135, SL-139, SL-143, SL-152, SL-153, SL-173, SL-177, SL-195, and SL-197.
4. A method of diagnosing cancer, tumor progression, or hyperproliferative cell growth comprising:
  - (a) providing an antibody capable of binding to a polypeptide encoded by any one of SEQ ID NO:1-339 or complement thereof;
  - (b) contacting a biological sample for diagnosis with said antibody under binding conditions that permit formation of an antibody-polypeptide complex; and
  - (c) determining the presence of said complex.
5. The method of claim 4, wherein said antibody is capable of binding to a polypeptide comprising at least six contiguous amino acid of a polypeptide encoded by any one of SEQ ID NO:1-339 or complement thereof.

6. The method of claim 5, wherein said polypeptide comprises at least six contiguous amino acids of a polypeptide encoded by any one the sequences of the clones selected from the group consisting of SL-5, SL-6, SL-9, SL-11, SL-13, SL-68, SL-69, SL-86, SL-90, SL-100, SL-107, SL-124, SL-135, SL-139, SL-143, SL-152, SL-153, SL-173, SL-177, SL-195, and SL-197.

7. A diagnostic kit comprising:

(a) a diagnostic reagent comprising a polynucleotide probe that comprises a sequence capable of hybridizing to any one of SEQ ID NO:339 or complement thereof when said sequence is present in a test biological sample;

(b) a normal biological sample; and

(c) instructions for detecting differences that exist between the levels of duplexes in said test biological sample as compared to said normal biological sample.

8. A method of treating a mammal with cancer, tumor progression, hyperproliferative cell growth or accompanying biological and physical manifestations, said method comprising administering to said mammal a composition that comprises a therapeutically effective amount of a polynucleotide comprising a sequence capable of hybridizing under stringent conditions to any one of SEQ ID NO:1-339 or complement thereof.

9. The method of claim 8, wherein said polynucleotide comprises at least eight contiguous nucleotides of any of SEQ ID NO:1-339 or complement thereof.

10. The method of claim 9, wherein said polynucleotide is an antisense construct.

11. The method of claim 9, wherein said polynucleotide is a ribozyme construct.

12. An isolated polynucleotide selected from the group consisting of:
- (a) a polynucleotide comprising the nucleotide sequence of any one of SEQ ID NO:2, 5, 49, 50, 99, 100, 115, 116, 118, 130, 131, 140, 144, 145, 146, 157, 158, 159, 163, 164, 165, 166, 177, 178, 180, 211, 212, 213, 218, 219, 220, 221, 229, 232, 233, 242, 243, 248, 249, 254, 256, 257, 259, 272, 273, 277, 288, 289, 292, 293, 316, 317, and 330;
- (b) a polynucleotide encoding a variant of the polypeptide encoded by (a);
- and
- (c) a polynucleotide encoding a protein expressed by a polynucleotide having the sequence of at least one of sequences of (a).
13. A vector comprising the polynucleotide of claim 12.
14. A host cell comprising the vector of claim 13.
15. A composition comprising a polypeptide, wherein the polypeptide is selected from the group consisting of:
- (a) a polypeptide encoded by any one of the polynucleotides of claim 12,
- and
- (b) a variant of the polypeptide of (a).



1/3

Sequence Range: 1 to 1383

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      10      20      30      40      50      60
TTA CTC ACT ATA GGG CTC GAG CGG CCG CCC GGG CAG GTC TAA AAA TAA AAT GAC AGT TTG AAC ATA CAA
AAT GAG TGA TAT CCC GAG CTC GCC GGC GGG CCC GTC CAC ATT TTT ATT TTA CTG TCA AAC TTG TAT GTT
<E S Y P E L P R G P L H L F L I V T Q V Y L

      70      80      90     100     110     120     130
AAC CCA CCC CAT TCC TAT AGA GCC TAG TAC TAC ACT ACC CCC TCC CAA CTT TAG CCT CCA CAT ATA GTA
TTG GGT GGG GTA AGG ATA TCT CGG ATC ATG ATG TGA TGG GGG AGG GTT GAA ATC GGA GGT GTA TAT CAT
<V W G M G I S G L V V S G G G L K L R W M Y Y

      140     150     160     170     180     190     200
ATG TGC TTG GAA CAC AAA AAA CAC TTC ATA AAT TGT GCT GAA TGA AAT CAT TTC CAT GAG TGT TTA TGG
TAC ACG AAC CTT GTG TTT TTT GTG AAG TAT TTA ACA CGA CTT ACT TTA GTA AAG GTA CTC ACA AAT ACC
<H A Q F V F F V E Y I T S F S I M E M

      210     220     230     240     250     260     270
ATT TTG AGT TCA TTT GTA CCT TTT ACC TAA AAT TCT AGC CAC TTT AAT TTG GAG AGT TTC CAG AGC AAA
TAA AAC TCA AGT AAA CAT GGA AAA TGG ATT TTA AGA TCG GTG AAA TTA AAC CTC TCA AAG GTC TCG TTT

      280     290     300     310     320     330     340
GGA CCT TTT ACC TAA AAT TCT AGC CAC TTT AAT TTG GAG AGT TTC CAG AGC AAA GGG CAC AGA TCC CAG
CCT GGA AAA TGG ATT TTA AGA TCG GTG AAA TTA AAC CTC TCA AAG GTC TCG TTT CCC GTG TCT AGG GTC

      350     360     370     380     390     400     410
GCA TAA CAA CGC TTT GCG TAT ACA GCA ACC AAT ATC TTG TCA ACC CAA GAA AGT TCC TCC ATT GAT ACC
CGT ATT GTT GCG AAA CGC ATA TGT CGT TGG TTA TAG AAC AGT TGG GTT CTT TCA AGG AGG TAA CTA TGG

      420     430     440     450     460     470     480
TAG TAG AAA TAG CCC AGT TTT TAA AGT CCT CAA AAC TGT AAC AAA TTA CTT GTT TTT AAA ATT TAA CTT
ATC ATC TTT ATC GGG TCA AAA ATT TCA GGA GTT TTG ACA TTG TTT AAT GAA CAA AAA TTT TAA ATT GAA

      490     500     510     520     530     540     550
AAA TTA ATA CAA TCA GAT TTT TGT GTT ATT TGG GTA TTA GAG TAT GTT AAA GCA CAT ATA TCC CAG AGA
TTT AAT TAT GTT AGT CTA AAA ACA CAA TAA ACC CAT AAT CTC ATA CAA TTT CGT GTA TAT AGG GTC TCT

      560     570     580     590     600     610     620
CAT AGA GTT TCC GTT TCA AAA AGT CAT GCA TTC ATG TGT GCT AAT GAC AAT CCT ATC CTC AGC CGC TAT
GTA TCT CAA AGG CAA AGT TTT TCA GTA CGT AAG TAC ACA CGA TTA CTG TTA GGA TAG GAC TGG GCG ATA

      630     640     650     660     670     680     690
GTG ACT TGT ATC TCT AAA CCA TAG GCT TTC CTG AAT TTT ATC TGT TAA TTT AAC CCT GAT TTC TCA GCA
CAC TGA ACA TAG AGA TTT GGT ATC CGA AAG GAC TTA AAA TAG ACA ATT AAA TTG GGA CTA AAG AGT CGT

      700     710     720     730     740     750
GCA GCT TCT CTT TGT AAA TAG ACT TGC CTC TTC TGT TGA CCT CTG CTC CTC ATA ATC AGA TTA ACT
CGT CGA AGA GAA ACA TTT ATC TGA ACG GAG AAG ACA CAG ACT GGA GAC GAG GAG TAT TAG TCT AAT TGA

      760     770     780     790     800     810     820
CAG ATA AAG CTG CTT CAG GGA AGA GGT CAA AAC CGT TGC CAA AAA TAG TAG TTG CCC TAC TTC AGT CTA
GTC TAT TTC GAC GAA GTC CCT TCT CCA GTT TTG GCA ACG GTT TTT ATC ATC AAC GGG ATG AAG TCA GAT

      830     840     850     860     870     880     890
TTT TCA ACA GAG TAG CCA GGA GAT CCT GTT CAC ACC AAA GTC CAA TCA GCC CTA CTG TTA GCA CTC TGC
AAA AGT TGT CTC ATC GGT CCT CTA GGA CAA GTG TGG TTT CAG GTT AGT CGG GAT GAC AAT CGT GAG ACG

      900     910     920     930     940     950     960
TCA CAA GCC TCC AGT GGC TTC CGA CCT CAC TCA CAG TAA AAG CCA AGT CAT CCT TTA GCC TAT GAT GTC
AGT GTT CGG AGG TCA CCG AAG GCT GGA GTG AGT GTC ATT TTC GGT TCA GTA GGA AAT CGG ATA CTA CAG

      970     980     990    1000    1010    1020    1030
CTA CAT GAT TTG AAT TCC CTT CCA TTG ATT TTT GTC ACT GAT TTT TAA AAA TCC AAA TTC ATT CTC ATA
GAT GTA CTA AAC TTA AGG GAA GGT AAC TAA AAA CAG TGA CTA AAA ATT TTT AGG TTT AAG TAA GAG TAT

      1040    1050    1060    1070    1080    1090    1100
CAG CTG AAT TGT CCT CTT TGC TTT AAG TAT GCC AGG ATT ATT TCT ACC TCA GGG CCT TTG CAC TTG ATA
GTC GAC TTA ACA GGA AAG ACG AAA TTC ATA CGG TCC TAA TAA AGA TGG AGT CCC GGA AAC GTC AAC TAT

      1110    1120    1130    1140    1150    1160    1170
TTC CCT TCA CCT TTT CCA AGA TAG TTA TTC CCT CAC CTC AGT CAA GCC TTT ATT TAG ATG CCC CCT TCT
AAG GGA AGT GGA AAA GGT TCT ATT AAT AAG GGA GTG GAG TCA GTT CGG AAA TAA ATC TAC GGG GGA AGA

      1180    1190    1200    1210    1220    1230    1240
CAT CAA GGC ATT CTC TGA TCT CCT TAT TTA AAT GTA TGA CAC CCC TTC TTT GCT TTA CAT TTA ATC AGA
GTA GTT CCG TAA GAG ACT AGA GGA ATA AAT TTA CAT ACT GTG GGG AAG AAA CGA AAT GTA AAT TAG TCT

      1250    1260    1270    1280    1290    1300    1310
ACA TGT GTC ACT ATC TAG CAT ATA ATA CAT TTG CTT GAC CTC TTT TGT TTA CTG TCT ATC CCT CCT GAA
TGT ACA CAG TGA TAG ATC GTA TAT TAT GTA AAC GAA CTG GAG AAA ACA AAT GAC AGA TAC GGA GGA CTT

      1320    1330    1340    1350    1360    1370    1380
TAC TGT GTA AGC TCC ACG ATA CAG GCA CTT TTC TCT ATT TCG AGC ACT GTT GTA TTA CAG AGC CTT AAA
ATG ACA CAT TCG AGG TGC TAT GTC CGT GAA AAG AGA TAA AGC TCG TGA CAA CAT AAT GTC TCG GAA TTT

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FIGURE 1

2/3

Sequence Range: 1 to 1815

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10      20      30      40      50      60
ACT TTT TGT TCA TTT TGA TTT TTG GAT AAT GCA AAA TTA TAG ATT TTT TAA AAA TTA TAT TCA AAG AAT
TGA AAA ACA AGT AAA ACT AAA AAC CTA TTA CGT TTT AAT ATC TAA AAA ATT TTT AAT ATA AGT TTC TTA

70      80      90      100     110     120     130
ACT GAG TGC AAG ACA ATC TTT CTA GGT TAA AAA ATA TCT TAT AAA CCT GAA TTG TCA ATT ATT ATT GTA
TGA CTC ACG TTC TGT TAG AAA GAT CCA ATT TTT TAT AGA ATA TTT GGA CTT AAC AGT TAA TAA TAA CAT

140     150     160     170     180     190     200
TCC CAG ATG TAT GGA AGT TAA TGG ATA GTC AGT AAC ATA CAG GAC TAG CAG AAG GTT TGT TGT TAT AGG
AGG GTC TAC ATA CCT TCA ATT ACC TAT CAG TCA TTG TAT GTC CTG ATC GTC TTC CAA ACA ACA ATA TCC

210     220     230     240     250     260     270
TAA TCT GGA GAG AAG CCA GGT AAG TGG AAT TTG GGA TTT GCT GCT GTT GCC AGA AAG CAG CAC AGA GAC
ATT AGA CCT CTC TTC GGT CCA TTC ACC TTA AAC CCT AAA CGA CGA CAA CGG TCT TTC GTC GTG TCT CTG

280     290     300     310     320     330     340
ATG GTA AGT GGC AAG ACC CAG GTA ACT AAA ACA ACC ATG TCT TAG TCC TTT TAT GCT GCT GTA ACA GAA
TAC CAT TCA CCG TTC TGG GTC CAT TGA TTT TGT TGG TAC AGA ATC AGG AAA ATA CGA CGA CAT TGT CTT

350     360     370     380     390     400     410
TAT CAC AGA CTG AGT AAT TTA TAA TGA ACA GAA CTT TAT TTG TCT TCT GGT TCT GGA GAC TGG GAA ATC
ATA GTG TCT GAC TCA TTA AAT ATT ACT TGT CTT GAA ATA AAC AGA AGA CCA AGA CCT CTG ACC CTT TAG

420     430     440     450     460     470     480
TAA GAG CGT GGC ATT GAC ATA TGG TGA GGG CAT TTG TGC CTC ATC ATC CCA TGA CAG AAG ATG GAA ATG
ATT CTC GCA CCG TAA CTG TAT ACC ACT CCC GTA AAC ACG GAG TAG TAG GGT ACT GTC TTC TAC CTT TAG

490     500     510     520     530     540     550
CAA GAG AGC TCA AAA GCA AGA GAG CAA ATG GGG CCA AAC TTG CTT TTT ATA ACA AGC CAC TCT TGT GAT
GTT CTC TCG AGT TTT CGT TCT CTC GTT TAC CCC GGT TTG AAC GAA AAA TAT TGT TCG GTG AGA ACA CTA

560     570     580     590     600     610     620
AAT GAA CCA ACT CAA ACA ATA AAG ACA TAA ATC CAT TCA TGA GGG CAG AGC CCT CAA GGA TGA ATC ACT
TTA CTT GGT TGA GTT TGT TAT TTC TGT ATT TAG GTA AGT ACT CCC GTC TCG GGA GTT CCT ACT TAG TGA

630     640     650     660     670     680
TCA CTT CTT A ATG GCC TCA GCT TCT AAT ACC ATC ACA ATA GTA ATT CAG TTT CAA CAT GGG TTT TAT
AGT GAA GAA T TAC CGG AGT CGA AGA TTA TGG TAG TGT TAT CAT TAA GTC AAA GTT GTA CCC AAA ATA
M A S A S N T I T I V I Q F Q H G F Y>

690     700     710     720     730     740     750
AGG GAC GTT GGA ACC ACA GCA AAC TGT AAC CAT TTT GAT TTC CTT ATT TGC ACC ATT TTA AAA AAA CCT
TCC CTG CAA CCT TGG TGT CGT TTG ACA TTG GTA AAA CTA AAG GAA TAA ACG TGG TAA AAT TTT TTT GGA
R D V G T T A N C N H F D F L I C T I L K K P>

760     770     780     790     800     810     820
ATT TAT TTA ACG ACT GTT TAT TCA GTG CCT ATT CTG TTG TGT TGG GGA CTA GAG GTA ATT ACA AAG GGA
TAA ATA AAT TGC TGA CAA ATA AGT CAC GGA TAA GAC AAC ACA ACC CCT GAT CTC CAT TAA TGT TTC CCT
I Y L T T V Y S V P I L C W G L E V I T K Q>

830     840     850     860     870     880     890
ATA AGA CAA ACA GTC ACC CAC TCT GGT GAT GCT TCC CTT ATC TTC ATA ATG CAT TTG ATC CTG TG ATT
TAT TCT GTT TGT CAG TGG GTG AGA CCA CTA CGA AGG GAA TAG AAG TAT TAC GTA AAC TAG GAC AC TAA
I R Q T V T H S G D A S L I F I M H L I L>

900     910     920     930     940     950     960
CTT TGG CAC ATG AGT CCA TTG CAT CTT GCA TAT TAG TGT CCA GTA AGT TTT TCC TGA CCA ATT GAT AAT
GAA ACC GTG TAC TCA GGT AAC GTA GAA CGT ATA ATC ACA GGT CAT TCA AAA AGG ACT GGT TAA CTA TTA

970     980     990     1000    1010    1020    1030
ATA CAT ATA CAT TGG TAG CAG TTT TGT GTA TAT TTT TAT AGT TAG ATG TTG TTG GCA CAT GTG ACT TGT
TAT GTA TAT GTA ACC ATC GTC AAA ACA CAT ATA AAA ATA TCA ATC TAC AAC AAC CGT CAT CAC TGA ACA

1040    1050    1060    1070    1080    1090    1100
GTC TCA GAA AAA TAC AGA AAA TGG TTA AAG ACA GGA GGA TAC TAC CCT GAT TTC TCT GTT CAT TAA AGA
CAG AGT CTT TTT ATG TCT TTT ACC AAT TTC TGT CCT CCT ATG ATG GGA CTA AAG AGA CAA GTA ATT TCT

1110    1120    1130    1140    1150    1160    1170
ACA GCT ATT TGG GGG CAA AAG CTG ATA CAA TTA TTT GAG CAT GTG GCT TAA AGA TTA GAC CTA TAA ACA
TGT CGA TAA ACC CCC CTT TTG GAC TAT GTT AAT AAA CTC GTA CAC CGA ATT TCT AAT CTG GAT ATT TGT

1180    1190    1200    1210    1220    1230
ATT CAG GAG CAT CTT CCA GCA AAC TGT GTG AGA ATT CAC AGA AAT AAA CCT GGT AGG TTT GTG CTA TGT
TAA GTC CTC GTA GAA GGT CGT TTG ACA CAC TCT TAA GTG TCT TTA TTT GGA CCA TCC AAA CAC GAT ACA

1240    1250    1260    1270    1280    1290    1300
TAT TCA CAT GGG CTG TTA ACT CTT TTC CAT TCC TAG GTC CTT TAT TTC CCT GCC CTC CTC AAT CTC ATG
ATA AGT GTA CCC GAC AAT TGA GAA AAG GTA AGG ATC CAG GAA ATA AAG GGA CGG GAG GAG TTA GAG TAC

1310    1320    1330    1340    1350    1360    1370
CTC TTG AGA TTT TTA ACT ATA TTA CTT CTT TAC AAA GTC ATC TTC AAA ATG ATT CAT TTT GGA TAG CAA

```

FIGURE 2

SL5 Immunohistochemistry Comparison of Tumor vs Normal

	1	2	3	4	5	6	7	8	9	10
<b>A</b>	<b>Adrenal</b>	<b>Adrenal</b>	<b>Adrenal</b>	<b>Ovary</b>	<b>Ovary</b>	<b>Ovary</b>	<b>Ovary</b>	<b>Breast</b>	<b>Breast</b>	<b>Breast</b>
<b>Tumor</b>	(+4)	(+4)	(+2)	(+4)	(+4)	(+4)	(+4)	na	(+4)	(+1)
<b>NC</b>	(-)	(-)	(-)	wp	(-)	na	(-)	na	(-)	(-)
<b>Normal</b>	(+2)	(+2)	(+2)	(+1)	(+1)	na		(+1)	na	na
<b>NC</b>	(-)	(-)	(-)	(-)	(-)	na		(-)	na	na
<b>B</b>	<b>Colon</b>	<b>Colon</b>	<b>Colon</b>	<b>Colon</b>	<b>Prostate</b>	<b>Prostate</b>	<b>Prostate</b>	<b>Prostate</b>	<b>Uterus</b>	<b>Cervical</b>
<b>Tumor</b>	(+4)	(+4)	(+4)	(+4)	(+2)	(+3)	(+3)	(+3)	(+4)	(+2)
<b>NC</b>	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)
<b>Normal</b>	(+2)	(+1)	(+2)	(+3)	?	(+2)	(+1)	(+2)	(+2)	(+2)
<b>NC</b>	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)
<b>C</b>	<b>Kidney</b>	<b>Kidney</b>	<b>Kidney</b>	<b>Kidney</b>	<b>Pancreas</b>	<b>Pancreas</b>	<b>Pancreas</b>	<b>Pancreas</b>	<b>Lelomyo-</b>	<b>Lelomyo-</b>
<b>Tumor</b>	(+4)	(+4)	(+4)	(+4)	(+4)	(+4)	(+4)	(+4)	(+4)	(+4)
<b>NC</b>	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	EDG	EDG
<b>Normal</b>	?	?			(+1)	(+1)	(+2)	(+1)		
<b>NC</b>	(-)	(-)			(-)	(-)	(-)	(-)		
<b>D</b>	<b>Liver</b>	<b>Liver</b>	<b>Liver</b>	<b>Stomach</b>	<b>Stomach</b>	<b>Stomach</b>	<b>Lymphoma</b>	<b>Lymphoma</b>	<b>Lymphoma</b>	<b>Lymphoma</b>
<b>Tumor</b>	(+4)	(+4)	(+4)	(-)	na	na	(+4)	(+2)	(+2)	(+1)
<b>NC</b>	(-)	(-)	(-)	(-)	na	na	(-)	(-)	(-)	(-)
<b>Normal</b>	na	na	na	na	na	na	(+1)	(+1)	?	(-)
<b>NC</b>	na	na	na	na	(-)	(-)	(-)	na	(-)	(-)
<b>E</b>	<b>Seminoma</b>	<b>Seminoma</b>	<b>Seminoma</b>	<b>Thyroid</b>	<b>Thyroid</b>	<b>Thyroid</b>	<b>Thyroid</b>	<b>Fibro-</b>	<b>Fibro-</b>	<b>Fibro-</b>
<b>Tumor</b>	(+3)	(+4)	(+4)	(+4)	na	na	(+4)	(+4)	(+4)	(+4)
<b>NC</b>	(-)	(-)	(-)	EDG	wp	EDG	EDG	(-)	(-)	(-)
<b>Normal</b>	(+2)	(+1)	(+2)	(+1)	(+1)	(+2)	(-)	(-)	purk(+)	(+2)
<b>NC</b>	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	na
<b>F</b>	<b>Melanoma</b>	<b>Melanoma</b>	<b>Melanoma</b>	<b>Chorio-</b>	<b>Carcinoid</b>	<b>Chorio-</b>	<b>Basal Cell</b>	<b>Basal Cell</b>	<b>Basal Cell</b>	<b>Germ Cell</b>
<b>Tumor</b>	(+4)	(+4)	(+4)	(+4)	(+4)?	(+1)	(+3)	(+3)	(+1)	(+4)
<b>NC</b>	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	EDG
<b>Normal</b>							(+1)	(+1)		(+1)
<b>NC</b>							(-)	(-)		(-)

Staining Intensity: -, no staining; + weak; ++ medium; +++ strong staining

Staining Percentage: 1: 0-25%; 2: 26-50%; 3: 51-75%; 4: 76-100%

For example: (++3) stands for 51-75% of cells have medium staining

NC: Negative Control, na: no tissue materials on slides

FIGURE 3

## SEQUENCE LISTING

<110> Zhang, Jimmy  
Astel, Jon H.  
Carroll III, Eddie  
Endege, Wilson O.  
Ford, Donna M.  
Monahan, John E.  
Schlegel, Robert  
Steinmann, Kathleen E.

<120> GENES AND GENE EXPRESSION PRODUCTS THAT  
ARE DIFFERENTIALLY REGULATED IN PROSTATE CANCER

<130> 200130.463

<140> US

<141> 1999-06-11

<160> 339

<170> FastSEQ for Windows Version 3.0

<210> 1

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<212> DNA

<213> Homo Sapien

<220>

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<223> n = A,T,C or G

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ttaagagacc	atcctggcca	acatgatgaa	accctgtctc	tactaaaaat	acaaaaagta	180
gctgggctg	gtggcatact	cttacaatcc	cagctacttg	ggaggctgag	gcaggagaat	240
cacttgaacc	taggaagcag	aggttgcagt	gggccaagat	cacaccacta	tactctagcc	300
tgggcgacag	aggtagggaa	aaaagtagga	ccctgtctct	atattcagggt	ttttctcaca	360
tatatgaacc	catctaaatt	ctacgttggt	aaaggtagct	taggttaatt	agtctatact	420
tattttaagac	caatatgggg	tgagatggat	ttttttttta	aaaatcctac	agtaaggcctt	480
tctactttcc	ttctaattgag	gaaaaagggtg	acaaaaattc	aagtgtcaat	gtccccttcc	540
tgggaagagg	tttagaaaaa	caacagctca	ccttctgaac	tctaccagtt	ccttttgaag	600
ttaacgaagc	attaaaatca	gatgtaaaaa	aagaaaaaaa	aaggcagggg	aatattttaca	660
aaactggaca	ttcttttacag	atatacaatc	ttgctaatac	tgggagaacc	nttccaagga	720
tgtataaaga	ggagacgnca	ccttagtaat	gccagggata	gagaaaaacc	nggatataat	780
atggggtttt	taatgccgga	acatggngga	aactaggang	agccgagatg	ganctgggtcc	840
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taggnaaaaa	actgggctgg	gcaaactact	tggntncaag	tttttttatg	ggagaccgaa	960
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ntangcgatc	agctattgna	cggaaatctct	gtganantga	nnagctnana	tcntctccan	180
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ngacagtcct	taggaaccnc	gcaantgana	nngngnggat	gcactagga	nctgncncnn	300
ntagnagcgg	agccccgttg	ataactgccc	tggtacncng	nagctgnaaa	gccgctgca	360
gaccgaacct	gagactgacg	tcgcctcanc	tatngacnnn	nnnccnatnn	tgagtgnaag	420
cgtntctnatg	ngacactcgg	ggncacgat	gcanancgct	ancnncccn	ggngtgncan	480
tnagnnaten	tgcncatat	tncgatntt	gacatgtgta	atgatngaga	tctcatannt	540
gcactgtgct	tctcatctat	taacgctaaa	ccatgacagt	tttctttcat	tgccacntnc	600
tttcagtgc	ccnanatntt	atcgctanat	attcnatcct	tcaacngtag	cattnttctt	660
gctnttcttt	nccnaaagca	tcttctttcc	caactcactc	cagggccaaa	tactctcanc	720
cnnctcactn	tangntctcn	gntcacggtc	tttcccgta	cacgtcattc	aattcccctc	780
gnaagctanc	ccaggcccaa	ctttnttctt	cttcaccggn	nntaacttaa	tectggggga	840
aggnaangcn	nggntcttta	gccttgntcc	agaaccttng	gtagcccccg	ncacaaatcc	900
naaaaacctt	tgacaggttg	ggggttgac	cccgggncct	ttttcccg	gtnggggtta	960
nggngggaac	cgnattttta	nntatngacca	aggaaggctg	gggtcctttg	gaaagncccc	1020
cngg						1024

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tcctaatacg	actcactata	gggctcgagc	ggccgcccgg	gcaggctcact	gggtttttct	120
cctttttagt	ccttttctt	tagtctctc	ttcccgggtg	ttggtaaaaa	gaggtgaatt	180
gacagcctat	gttgaagaca	ctgtgctttt	ctcaagaagg	acatccaaac	agcaagtcta	240
cttctttctc	tttaacgatg	tgctcattat	caccaagaag	aagagtgaag	aaagttacaa	300
cgtcaatgat	tattccttaa	gagatcagct	attggtggaa	tctgtgaca	atgaagagct	360
taattcttct	ccagggaaga	acagctccac	aatgctctat	tcaagacaga	gctctgccag	420
tcacctcttt	actctgacag	tccttagtaa	ccacgcgaat	gagaaagtgg	agatgctact	480
aggagctgag	acgcagagcg	agcgagcccc	ctggataact	gccctgggac	acagcagcgg	540
gaagccgcct	gcagaccgaa	cctcactgac	ccaggtggaa	atcgtaggt	catttactgc	600
taagcagcca	gatgaactct	ccctgcaggt	ggctgacgtc	gtcctcatct	atcaacgtgt	660
cagcgatggc	tggtatgagg	gggaacgact	acgagatgga	gaaagaagct	ggtttcttat	720
ggaatgtgcc	aaggagataa	catgtcaagg	ctacaattgn	ttaagaatgt	ggagagaatg	780
ggacgcttgc	taggactgga	gaanccacgt	gagncctttt	aangggcctt	tggtactgca	840
agaattgcac	cgacacttac	cgggcttggt	ggttctgggg	ctagtttaat	ggnaatttgg	900
cccagncttt	tttaattaaag	gaccggaaac	cntggccttt	aactttggcc	agtggtnccg	960
tnntnatgg	aaaaaacttt	gggtaccccc	gngttgcccc	ggttagtttt	acctaaccct	1020
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tgtgatcttg	gctcactgct	acctccacct	cccaggctca	cacgatccct	cagcctcagc	120
ctccaagta	gctgcgacta	caggtgcacg	ccattgcagc	tggctaattt	ttgtattttc	180
agtagagatg	gggtttcccc	atgttggcca	ggctggtctt	gaactcctaa	gctcaagcaa	240
ttcacctgcc	tcagcctccc	agagtgtctg	gattactcct	aagctcaagc	aattcacctg	300
cctcagcctc	ccagagtgtg	gggattactc	ctaagctcaa	gcaattcatc	tgccctcagcc	360
tcccagagt	ctgggattac	tcctaaactc	aagcaattca	cctgcctcag	cctcccagag	420
tgctgggatt	actcctaagc	tcaagcaatt	cacctgcctc	agcctcccag	agtgtctggga	480
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aagctcaagc	aattcacctg	cctcagcctc	ccagagtgtg	gggattacag	gtgtgaagca	600
ctacacccag	cccattcttc	ccttttaacc	aaggaagaaa	ttacacaatg	aaacaaatac	660
cccgaatctt	aatatcactt	ttcctttgnc	ataattaaca	attagcgaca	cagaatcgag	720
gggaaaaaca	caggatccgt	ttacttctan	gaanggcgtt	tctgtgaatc	taagaagggg	780
cttttctgng	gtctcaaggn	cacgggtcaa	gccaggtggg	ccgcttgccg	ggtgcgctgg	840
ctggggagaa	acttntcggg	gatnggaagt	gaaannggtt	ccgntcgggc	ccccttnttt	900
tgggaaaccc	caggngngtn	tngcaaaggc	caagggaaa	gcctcaaggg	ggggcatgaa	960
ctttgnagct	tccaactttg	gttcctntan	acnngggggg	gccctnatgg	cccaaaaagg	1020
gctt						1024

&lt;210&gt; 5

&lt;211&gt; 1024

&lt;212&gt; DNA

&lt;213&gt; Homo Sapien

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(1024)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 5

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tccttcctaa	tacnactcac	tataggcggn	agnggccacn	tcnagctngn	gnnngaagtt	120
ggnnctgngt	gnagtctgtg	cctgnggcan	cgcgtcatgc	atgactttgg	gtcattgtctg	180
ctctccttgc	ctttagggga	gggtcctggt	gctctgtgag	cagattngac	cctaggggtg	240
aagtcatctn	gccccgtgtc	tgagccgaga	gctggncagg	gngcgtctca	catcattcct	300
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accaaaccag	gaannaanca	caccgtgcga	aaggnattgg	tgaacgaact	gaaaaattgt	480
aaagctctta	aggactttca	tgcttgcna	nattnantga	canaaaatca	ctganncann	540
gaacataaag	aaatagccat	ggangattca	cagtgtanct	ngctgancng	ctcatntggc	600
cncaaggnat	gtttactna	cgnagnncna	atganctggt	ccttgntnng	gctggcttct	660
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ggaaaaacng	gnanntagga	antttgnaag	gacaaccaaa	ggaaactgga	agggaaacaa	780
ttttttgggt	cccaaaaccg	ggccaagatt	gggcttcaaa	aancctttga	accngggggg	840
ncaattntnt	gggnttanat	cccccgaaag	gaanngggan	ggtnttnaag	gnaaaaancc	900
nnccaaggaa	cccnnggttn	gggccttgga	agggncctct	gncnnggttt	cgaggntttg	960
ncttaactgg	aaggncccna	aagggaacac	cnnnnntttt	tnaagggntc	cccgaacccc	1020
aaag						1024

&lt;210&gt; 6

&lt;211&gt; 957

&lt;212&gt; DNA

&lt;213&gt; Homo Sapien

&lt;220&gt;

&lt;221&gt; misc\_feature

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&lt;223&gt; n = A,T,C or G

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gtagatggcc cagccccaag tgttccgacg ttccctgccc aacataattct gtgacggaaa      120
gcctatgttg acctcgctccg gcaactcaagg cgtgggcagc ggcctaacgt ctgctgcggg      180
aacacagtcg cgttgaatgc tattctcaag acagacaaaa cagtgggaag acactacgcc      240
aagctgctaa ctccctggcc attgccggac tctttcaccc ccatggactt tccgctggca      300
ttttaaacaa catagtttct tttctctgtc tctttctctt tccctctctc tttctctttc      360
tctctctctc tctctctctc tctctctctc tctcaatctc ataatttctc tctctctgtc      420
cacgttccca cccaacgctc totcgcccac ttctactggg gcccaacttc tctctgtctc      480
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ttcaanacgg taaagagctg caactgaacg tgtgagacat ggtgcanata aggctgagag      600
ggcggngggg gagatgcccc tgaactcaag tacctgcccc gccngggccc tcgaaagggg      660
gaattccagc aaactggcgg ccgttactan tggattcgng ctccgggtaca ngcttggggg      720
aatcatggtc aatanctggg ttctgtgggt naaattgggt ntccgggtca nnaatttcaa      780
nannanatan naagcncggg aancataaan ttgttaaagc ccnggggttc cctnaatnan      840
tttgnctan tnnaacntta aattngngnt tttnncnncan annngncngnt ttttcaattc      900
cgggaaanct ngctntnngn agctngcatt atcnanttcg ggccaaangc gcggggg      957

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<223> n = A,T,C or G

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cctcagcctc ccagtagtgg gggactacag gcgtgtgcca ccacaccggg ctaatttttg      180
tatttgagtg agagacgggg ttcatcatg ttggccaggc tgggtctcgaa ctcttgccct      240
caagtgaacg gccctgcctc acctcccaaa gtgctgggat tacaggcgtg agccaccgca      300
cctggcctct atgctcgaat ttctactctt agctaattct tctaacacat atgcccttca      360
ttgggtaaaag ctggctcagc agactaatta cacctgtcat gtaatacaag cctctccctg      420
gcctgtatta tctcatgggt gccttctatt tgtgacaagt gctatgaata ttcttttta      480
agaagtgata caaaatcttt ttttttttct tgaacaggat ttttaactca gacagtgtaa      540
acatcatgac aattctggaa tgtctgaagt ttgagataga agattgtcta agaaaagctg      600
agattgnctt agctgtttgt ggtatccgaa ttctcttgga acatgggcat cagggaaccaa      660
gcgatgccac tgctactggg cagggttttt atattttacc taaacagaga ccaatgacgc      720
tgacctacct taatgaaaaa ttcagaaaaa ccactctgga tcagcccat catgtccaga      780
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ccaagznaat ggaatgtcaa aagtattgga gcctaattta aaatggggnt tccntantaa      900
agnnttgctt tcanttaatg ggancanttg gcnanntggg tttgggnacc cctgcataat      960
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cccg      1024

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```

```

ngcngnnggn ntncntnttg agagntnnngn ngctnanctg ctatgntctc ntggatnnnc 180
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tnantgctat ncattatnnn gnntgcata ntantctnna nngccnncaa ggcacgcng 300
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ttactacaac tggctcttga atatccctt gcgctgatat ttgtggtcag ctgcctacag 480
ttgaatatgc agcgtnacac anncnaagct gccagtgtca caattaactg aagcatnact 540
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gggcaagagc agtagctctg gtatgtgaca ttgatcccca gatgccttcc caatctggac 660
atgatggggc tgnnttccca atggttacnc tgaaaaatgca ttaagggagg tcagcgtcat 720
ttgtctcatg gatacgnaaa aatctcttnc accctgncca tnaacaggng gcaatcgctt 780
gnggncctga tgnccatggt ccaaaaggaa tccgatgcca nnagcngctg ggacagtctt 840
aagcttttct tcnccacct tctatcttga acttncanac gtttccggaa acnccaanga 900
nngttaccac ttgccngacc taaaaaacnc tgttcacgaa nttnaacttn ggatttngga 960
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nnga 1024

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<400> 9
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gtgggtgat cttggccac tgcaacctct gcttctagg ttcaagtgt tctctgcct 120
cagcctccca agtagctggg attgtaagag tatgccacca cggccagcta cttttgtat 180
ttttagtaga gacaggggtt catcatgttg gccaggatgg tctcttaact cctgccctca 240
agtgatccac cagagaggag atcctcgcc tccccaaagt ctgggattat aggcacgagc 300
caccgtgccc agcctacttt ctaattaacc aaaaaaaaaa aaaaaaaaaa aaaaaagcg 360
gccgtgaat tctattctag aattaagcgg ccgctgaatt ctgacctgc ccggcgggcc 420
gctcgagccc tatagttagt cgtattagga tggaaaggcg aattctgcag atatccatca 480
cactggcggc cgctcgagca tgcantaga gggcccaatt cgccctatag tgagtctat 540
tacaattcac tggccgtcgt ttacaacgt cgtgactggg aaaaccctgg cgttacccaa 600
cttaatcgcc ttgcagcaca tcccccttc gccagctggc gtaatagcga agaggccga 660
ccgatcgnc ttccaacagt tgcgcagcct gaatggcgaa tggacgcgcc ctgtagcgcc 720
gcattaancc gccggcggt gtggtggtta cncgcancg tgaaccgnta cacttggcan 780
gngcctacgg ccgnttctt ttcttcttct tctcttctt tnttggnc cgtttcgcc 840
gggttttccc cggtnaagct nttaaattng ggggttccc ntttngggg tcccgaantt 900
anngccttta acgggacct ggancccaa aaaactttgg tttangggg angggttcac 960
cgtaannggg nccatttgc ctggntaaac nggtttttt ccccnttgac nttgggnanc 1020
cccg 1024

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<210> 10
<211> 1024
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1)...(1024)
<223> n = A,T,C or G

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<400> 10
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ncnatcctaa tacgactcac tatagggctn gagcggncca ccggacagng nttnnggtgg 120
ctnatgccta naatcccagn acttggggag gccnaggatc tctntnttg tggatcactt 180
gagggcagga gttaanagac catcctggcc aacatgatga aacctgtct ctactaaaaa 240

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tacanaangt	agctgggcgt	ggtggcatac	tcttacaanc	ccagctactt	gggaggetga	300
ggcaggagaa	tcacttgaac	ctaggaagca	gaggttgacg	tgggcccaaga	tcacaccact	360
atactctaaa	gggcgaattc	cagcacactg	gcgnccgtta	ctagaggatc	cgngctcggt	420
nccaagcttg	gcgtaatcat	ggacanagct	gttnccctgtg	tgaaatgggt	aancgctnac	480
aanntnacac	aacatacnag	ccggaagcat	aaagngtnaa	gcctggggng	cctaatagag	540
gagctaactc	acattaattg	cgttgcgctc	actgcccgtt	ttncagntcg	ggaaacctgc	600
cgtgccagct	gcattaatga	atcggccacg	cncnggggag	aggcggantg	cgaatgggcg	660
cttcttncgn	ttctcgctta	ctgactngat	gcggttcggc	ccattgnntg	cagcaaagcg	720
gnatcngctc	acttnaaagg	cnggnaatnc	cggttntccc	cntgaatccg	ggggattacc	780
gcaggtnaag	aaccatgggg	anccaaaagg	ccagctaaaa	gggcccggga	acccggaaaa	840
aaggcccngt	tggttggcgt	tttttcanaa	ggttccgccc	ccttgaccgn	ngcnttacia	900
aaattnggag	gcnttaaggt	cnnaantggg	ggaaaccccc	cgggaaattt	caggntnccc	960
nggggtttcc	cctgggaagt	tncttngggg	gctttccnnt	tcnaaacctg	gcgnttaccg	1020
gnaa						1024

<210> 11  
 <211> 1024  
 <212> DNA  
 <213> Homo Sapien  
  
 <220>  
 <221> misc\_feature  
 <222> (1)...(1024)  
 <223> n = A,T,C or G

<400> 11						
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ttgagcggcc	gcccgggcag	gtacgcgggg	gggcatttcc	ctgacgactc	gtgtgtgccc	120
tgggggagcg	gtagatggcc	cagccccaag	tgttccgatc	ttcctgccc	aacatattct	180
gtgacggaaa	gcctatgttg	acctcgtccg	gcactcaagg	cgtgggcagc	ggcctaactg	240
ctgctgcggg	aacacagtcg	cgttgaatgc	tattctcaag	acagacaaaa	cagtgggaag	300
acactacgcc	aagctgctaa	ctccctggcc	attgccggac	tctttcacc	ccatggactt	360
tccgctggca	ttttaaacia	catagtttct	tttctctgtc	tctttctctt	tctctctctc	420
tttctcttct	tctctctctc	tctctctctc	tctctctctg	tcaatctcat	aatttctctc	480
tctcgtgcca	cgttcccacc	caacgctctc	tgcgccactt	ctactggggc	ccacttctct	540
tcttctctct	tctgtctcaa	cgtgattgac	tttcttgtgc	tgcccaggac	ttcttgccc	600
cgtgcgcctt	caaaacggta	agagctgcaa	ctgaacgtgt	ganacatggg	gcagataggc	660
tgagaggcng	cgggaaaaat	gcccataaaa	ctcaaagtac	tcnngccggc	ganacagcta	720
angggngant	ttcaagcaca	nnnggcgggc	cgttactaan	tggattcgaa	cctccggtag	780
caaaagcttg	ggcgttaatc	atgncaanaa	gccgttttcc	ngtnttaaat	ttgttnancc	840
gctcananat	tccanacaa	cnattacnan	gccgggaaan	ccaanaaagt	tgtaaaacc	900
ctgggggttg	ccnnaatgan	ttgangctaa	ntccnnttta	atttncnttg	cncnaangg	960
ccgggttttc	cattcgggaa	acctgtncgt	nccaanctgn	atttantgaa	tcgggcaaac	1020
tccc						1024

<210> 12  
 <211> 957  
 <212> DNA  
 <213> Homo Sapien  
  
 <220>  
 <221> misc\_feature  
 <222> (1)...(957)  
 <223> n = A,T,C or G

<400> 12						
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ttacagatag	aatgaccaca	accatattaa	caaaccacaa	acctgtgcac	agaaacaaga	120
tgaagaaaat	atatcaagat	gttaaccaca	ctctttggat	ggtgaaaaca	tgggtgagtt	180
tctcttctac	atttctgtaa	cttcaaagtt	tctataatga	acacatttca	tatataatgg	240
aaatatatgt	agtaaaaggtg	gactaccaaa	acactagaat	gatgaccttt	caaggaaacc	300
gaaacaaaat	aaccataatc	ccacaacaac	cacacaacta	tttcttgttt	ttcatctttc	360

ttcccatctt	tgacatttat	gcatacttat	cactaacacc	ctaataatca	cagactagt	420
cacagatcaa	gatgttaaca	gttaattggt	gttgggtgtt	gggaatatgt	gtgaattttc	480
tttactgaat	ttccaaagt	ttgtatgagt	atgtantata	tttgtaatgg	aaaatacata	540
cataagaatt	tantaccaa	nacaccaaag	attattttaag	gaatttgaga	caaaaatatt	600
tanccaaatt	cccacaatga	caacaccaan	tttaggtant	ttccacatct	ntttcaaatt	660
taanggcttt	angcacacat	attttaacac	tggtanccac	aagcngtggt	gcnccggaan	720
caannngntng	agggaaacca	ggtncaaagga	tggtnancan	taagttgtta	anggggttgg	780
gaanannnggn	aatttttttaa	aacanattta	cnttaanttt	ccaagttttt	cnccgggga	840
anntttttng	gccaccaatg	ggggnncccc	nttatanccn	ngtnanccgg	ggacattttt	900
tnnnnggggaa	atttnganaa	atttagagt	ngaaangntt	tttaccsaan	agtnccn	957

<210> 13  
 <211> 1020  
 <212> DNA  
 <213> Homo Sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(1020)  
 <223> n = A,T,C or G

<400> 13						
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ttcgagcggc	cgcccgggca	ggtacccagg	attcaaaagt	catcttcccc	ggcgggaggc	120
aagggaagct	tatggagAAC	ctcttaaaga	tattgtgagc	attctactca	ttacttaggg	180
aaagagagcg	ggtgttggtc	caactctggc	ttttgtgcca	ggtaggagtt	ggtcctgagg	240
ccgcccattct	gaccatactg	gacctgtttt	aaggtttttc	tctaaaaaaa	tttttagattt	300
gtcaatctgt	gtcctctgag	gggatgctat	gtccaaatgt	cccaggattt	gtttttttct	360
gtctttcctg	agacattccc	tgcccagcta	cccaaggaa	ccttcaaacg	agcaaactctg	420
accatatctt	ctatggtcag	attaaaaatct	tccatggctc	cctattgctt	atgggacaaa	480
atcaaaattc	ctgagtctgg	tctaaaaggt	gtttgatgat	cttgacctgc	tgactttgcc	540
agccttcttg	tcagactctc	gtgtcatgct	ccgcctagac	tatgagcctg	ctatttcata	600
ctatgtagct	ttgtaaagtc	ccagaaaatg	ctgggctctg	actcttttat	aactttacat	660
atactgttcc	atctgctctg	aatgccttct	acttgtctgt	ccagcaaatt	ctcaactcat	720
ctcttaaggg	cccagcttca	attgcccgtc	cctancataa	gtcttccctt	gatttcccan	780
gcagnaatta	nttcccgcgt	accccgggga	ntcccaatca	gtttgtgctt	tcaaaactga	840
tggnnngact	tccctgaaat	ttgggttacc	ncaaaacgaa	atgggtgaat	ccnnttcccc	900
cgggggggct	gcaattgcac	ccttttttaa	aggggaaccc	tgnaantccc	aatggnttaa	960
atttgaacnc	cttaanggcn	tnanttcnat	tgagcaactt	naaaaggggt	tttttttttt	1020

<210> 14  
 <211> 1013  
 <212> DNA  
 <213> Homo Sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(1013)  
 <223> n = A,T,C or G

<400> 14						
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gagcgggcgc	ccgggcagg	acctcattag	taattgtttt	gttgtttcat	ttttttcnaa	120
ngtctccctc	ctacnagctc	acctgagata	acagaatgaa	aatggaagga	cagccagatt	180
ttctcctttg	tctcngctca	ttctctctga	ancctaggtt	acctattttg	gggacccatt	240
ataggcaata	aacacagttc	ccaaagcatt	tggacagttt	cttgttgtgt	tttanaangg	300
ttttcctttt	tctnancctt	ttcctgcaaa	aggctcactc	agtcccttgc	ttgetcantg	360
gactgggctc	cccagggcct	aggctgcctt	cttttccatg	tcccacccat	gagccctcna	420
ctagacagct	cantaagcct	ggcccttcat	tctgcgctgt	gttcttctct	ngtgaaaatc	480
caatacctct	tacctctctc	gcatgcaaa	attctcaagg	attgtcagac	ttcaaacgta	540
acagcagaac	caccagaagg	tccnataaat	gcagtagtga	ccttctcaag	ctgtcaggctc	600
tttaaatagg	atttgggatt	taatgcnatg	tattttttaa	ggaaagaaat	aagagtgcen	660

agtttaaaaa	tgcattgtctt	ttagccaatt	cagaatcctg	ccccaaaact	tttttaaaaa	720
gtcaagacag	ataaagcttt	ggggganacg	gaaaaaaann	gnnnaaaaaa	anaaagtact	780
tcgggcggna	acnacgctaa	gggnnaattc	agcananggg	gggccgttac	aagnggggtc	840
nanncccggg	acnaancctt	gggggtttta	caagggcnaa	ancnggttnc	cggggntnaa	900
aattgttacc	cgcnaaaaat	tccanaaaaa	natncgaacc	cggaaancca	taaantntnt	960
aancccnngn	ggccnaaggg	agnnnaaac	ccnaataaa	tggnttggn	cnt	1013

&lt;210&gt; 15

&lt;211&gt; 951

&lt;212&gt; DNA

&lt;213&gt; Homo Sapien

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(951)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 15

accctagggc	aaatactgag	cagggtaaaa	ttcccagaat	accctactaga	agcgtggaat	60
atatcaatat	cctaggaaga	agattcagca	caccaaattt	cccattactg	ataacagctc	120
tgaaggcata	ataagaaagt	gagtgatcag	aagagcagag	aaatgacttg	ttccagtcac	180
tgccatcttg	tttacccttt	cagtgggtcc	cttacccttt	tccccactgg	gcatacagct	240
catctctctc	tgagtccttt	tctgtcttcc	tcctttgtct	taaacgttcg	agtttcaaat	300
tcctcttacg	accagactta	tctcgaaata	cggtttcagc	atattgaaat	tcagctgcaa	360
aggaaaatta	tactcaaata	tcaggatcaa	aatcagaaat	aacattctaa	gagatcaaat	420
caaccgcttg	ggatttcta	gctagataag	aacttctgca	gccagaccaa	agtagttcgt	480
accaacatct	tggtgcata	tggcactggg	cccaagaaat	ggcattttcc	tttttttttt	540
ttttgagatg	gagttctact	ctgttgccca	ggttggagtg	cantgggcgc	gattttggct	600
cactgcaacc	tccacctccc	aaggttcaag	cgatttctct	gtctcaagcc	tcctgagtga	660
gctggggaat	acagggcata	cnacancatg	cctggctagt	tttttttttg	gaattttggn	720
tagagacagg	ggtttcatca	nggttngccc	aggcctggtn	cttggaaactn	anagaccctc	780
aggntggatt	caacccaact	tccgggctac	caaaaggtng	ncnggggatt	acangcattt	840
anncaacnng	gcctnngggc	naaaatggna	anttttcang	aagggaagc	agcnnntggg	900
atcccnngnn	naantttcac	caaggcctta	aaccagggnc	gtaaatttgt	t	951

&lt;210&gt; 16

&lt;211&gt; 1008

&lt;212&gt; DNA

&lt;213&gt; Homo Sapien

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(1008)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 16

gtgcgatgca	tgctcgagcg	gccgccagtg	tgatggatat	ctgcagaatt	cgcccttttcg	60
agcggccgcc	cgggcaggta	cattacttgg	tgtaaacatt	gttggcagtg	gtagcccctt	120
ttcagaaaagc	aacttgctgt	aagtcagggt	gtccgttcca	accttcagct	agtgaagagg	180
tagtaacaaa	tggtaaacaa	gagaatgatt	gtttaaacct	atctgtggac	acttaatgca	240
actgtttaaa	aatgataatc	acgagttatg	tagcaacgtg	gaaatatatt	tacagaacat	300
taagtggaga	aagcaggaca	cgaaggtata	tttatactac	agttataact	caacagttca	360
tttatatgct	gttcattttaa	cagttcattt	aaacagttca	ttataactgt	ttaaaaatat	420
atatgcttat	agtcaaaagc	tggttggttg	ttgttggttg	aggcttatag	ttgagcatta	480
ttttctttaa	tttcttgaat	gttctttatg	gtagtgttac	taaaaagtgt	atgatcacat	540
tttcattgtg	aacataattt	gaactcatta	tcacacactt	ggaaaataca	gaaaagtggg	600
ggaaaaaaa	tcatatcccc	ancatccaaa	gacatatact	ctcctcttat	cctgttcaat	660
cctgggtttcc	gggtgcacaa	gtttatgatt	ataactgtgt	caaaatgtat	aatcaaaaata	720
gctgttacat	taccttgggtg	gnantaaggg	taaataacct	caccttaaat	ttttcaaaan	780
gttcccaana	ataaaggtcc	ggataacagt	ggtataagtg	tgtcccaatt	gggggtgcan	840
aatacattcc	cangngggaa	aatttnnaaa	tnaagttaaa	ttatttttaa	aaatttccaa	900
aattcccaan	anctaanaac	taangggnaa	aaacctngat	cgggntnccc	caaacnngtt	960

taantggnac nccttgggaa aanaagnttt aaaaanggtg gcaaaaaag

1008

<210> 17  
 <211> 1024  
 <212> DNA  
 <213> Homo Sapien  
 <220>  
 <221> misc\_feature  
 <222> (1)...(1024)  
 <223> n = A,T,C or G

<400> 17  
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 tttnnanagg ncgncgggc angnantctt ccncctntg ccatnannca cggnnanaaa 120  
 cngcagtggc actaantntg agacaatctt ncaaaccagc ttcagtgcgc tncacttntc 180  
 nnnngtncaag angagggcca ggangggaaa catcacantc gcgctaagnc cngntccggg 240  
 nngtcagcat nngntctggt ncaanncccn cgtcgggtcc cctcatccta ctctgcctcc 300  
 natgactttg cncctcagac ntentggaac naaggnttcc nggggggcac accgcgtccg 360  
 gccgnnnntg tctcggggcc acttggcggtg tgtgataaat caatcaagct gttnanntcg 420  
 nacgagtctc nggtngcctg cananntaag cctcatcatc agagcctttc ctcaaaactg 480  
 gantccanaa tgtcatcagg ttntggttnt tttcagccan naggaagccc tcngcattga 540  
 atccnagaac ttgggcatgg ttnaagatct acaagntnga atacgctgcc cgcnaanaac 600  
 nttcaaccct aacaggaagg tnggattcaa ggaagggtgta anggnncatt annccacncg 660  
 ggggnaccac gggagntana antanncatn nntttgggtt cgcccncgga agggnnntaa 720  
 cccccggaat tnnnttttng ntnaaggggg gnnnnnggna aatcccggtt cnnattttg 780  
 gaaagggann ccttnccttn cnntnggcct ntaaaagnnt tancaanacc cgnnatnntg 840  
 ttnanggecc cgnntttcaa nggggttaan nnttnggggn aacccccnnc cccaaagng 900  
 gnnnaanggg ggnaattccc aanaaaacng ggggggnccct tnnnnnangg gnttcngnnn 960  
 ccccnaaagg nnnctgggg ggnnannann gnncnaaaaa gggttcccn nnnnaaattt 1020  
 tttc 1024

<210> 18  
 <211> 981  
 <212> DNA  
 <213> Homo Sapien  
 <220>  
 <221> misc\_feature  
 <222> (1)...(981)  
 <223> n = A,T,C or G

<400> 18  
 acgcgggaca gagagaaggt taagagcaac aagatgggag gcagctgcat ggaacctgtc 60  
 ccactgagga agtaaaacag agttttactc ttgttgccca ggctggagcg caatgggtgcg 120  
 atctcggctc accgcaatct ctgcctcctg agttcaagcg aggagcaacc ctacctgatg 180  
 gactggactt ctgcctggat tggagtttga tcatgcctcc atatgggtgt ttaccaggcg 240  
 tatgcatgta acctgagttt gtctcttcaa tacaaggaaa atctctgccg cttagtgtgatt 300  
 ttccaagaaa catgagcttc tgcctttcaa tgaggaagat actcagaagt catgttcgag 360  
 cactccggaa aatgtccttg gagtttcaac atttctttgg tcttccacat ttcattttgt 420  
 cctgattaaa gaggaagcca agttgctggt tgtgtggcca tgtgagcagg canggagatg 480  
 gtggctgcct agaagccaag agaagtggcc tcaagatgaa atctaccttg ctggtactgc 540  
 cggggcgggc cgcccgggca aggtacnttt tttttttttt gttttttttt ggcaaaaagg 600  
 ctgtaaagct tttttgggga gaaattttaa tgggncaaan tttccaacac aggnagcanc 660  
 cctgaaacca attttaagcg ggtccttccc ttttaagget gttnaattgc cccttcaanc 720  
 ttctcaagg ngtttttcac cctccncccg ggattttggn aaaggcccaa aantccntgg 780  
 gnaanaagg gacaatctcc cgggnttaaa aaccaattnt ncggggngna accnggttcc 840  
 ctgggctann cncctttaa ggnntccggg gcccttttgn gggggnaatt ttcaaacggn 900  
 ncctncattt tctnaggggg naancncct tngggtcann gggncnannn cccaagnctt 960  
 caaanccnaa ntcttttggg g 981

<210> 19

<211> 980  
<212> DNA  
<213> Homo Sapien

<220>  
<221> misc\_feature  
<222> (1)...(980)  
<223> n = A,T,C or G

<400> 19  
acttttttct tttttttttt tttttccgtc tccccaaagc tttatctgtc ttgacttttt 60  
aaaaaagttt gggggcagat tctgaattgg ctaaaagaca tgcattttta aaactagcaa 120  
ctctttattt tttcctttaa aaatacatag cattaaatcc caaatcctat ttaaagacct 180  
gacagcttga gaaggtcact actgcattta taggaccttc tgggtggttct gctgttacgt 240  
ttgaagtctg acaatccttg agaatctttg catgcagagg aggttaagagg tattggattt 300  
tcacagagga agaacacagc gcagaatgaa gggccaggct tactgagctg tccagtggag 360  
ggctcatggg tgggacatgg aaaagaaggc agcctaggcc ctggggagcc cagtccactg 420  
agcaagcaag ggactgagtg aagccttttg caggaaaagg ctaagaaaaa ggaaaaccat 480  
tctaaaacac aacaagaaac tgtccaaatg ctttggggaa tgtgtttaat gcctataatg 540  
ggtcccaaaa atggggtaac ctgactttca gagagaatga gcanaganca nagggagaaa 600  
tctggctgtc cttccaattt tcaatccgtn atcccagggtg aagctgggta ngagggggag 660  
ancattngna naaaaaatnga aacaacanaa nccagtttac taaatnaagg gaacctgccc 720  
cngggcgggc cnccaanggg ccaaatttca ancaacannng ggcgggcccc ttaccaantg 780  
gnattccgaa gccnccgggt accaangcct ngngntnaat ccagngggnc aaanccngtt 840  
tncnngngt gnaaattggt tancnccgcc naanaattcc acancaacga atcngaagnc 900  
cgggcnagca tnnangnnta aancccgngg ggggcncaaa agggaatgnn nccanaccn 960  
attaaatncc gttgccctg 980

<210> 20  
<211> 1024  
<212> DNA  
<213> Homo Sapien

<220>  
<221> misc\_feature  
<222> (1)...(1024)  
<223> n = A,T,C or G

<400> 20  
cttggtagcg ngctcggatc cctagtaacg gccgccagtg tgctggaatt cgcccttcca 60  
tcctaatacg actcactata gggctcagac ggcgcgcggg caggatttca gcggccgctt 120  
ttttttttt ttttttttt ttttttttt attgntgaca ctattacaga tagaatgacc 180  
acaaccatat taacaaacca aaaacctgtg cacagaaaca agatgaagaa aatatatcaa 240  
gatgttaacc acactntttg gatgggtgaa acatgggtga gtttctcttc tacatttctg 300  
taacttcaaa gtttctataa tgaacacatt tcatatataa tggaaatata ttagtagaaag 360  
gnggactacc aaaacactag aatgatgacc tttcaaggaa accgaaacaa aataaccata 420  
atcccacaac aaccacacaa ctatttcttg gttttcatct ttcttcccat ctttgacatt 480  
tatgcatact tatcactaac accctaataa tcacagacta gtgcacagat caagatgtta 540  
acagttaatt gttgttgggt gttgggaata tgtgtgaatt ttctttactg aatttccaaa 600  
gttttgtagt agtatgtatt atatttgtaa tggaaaatac atacataaaa tttattacca 660  
aaacacaaaa gattatttaa ggaatttgag acaaaatatt taaccaaatt cccacaatga 720  
caacactatt ttaggtattt tccacatctt ttcatttaag actttatgcn cncatattta 780  
acactgggat ccacaagcgt gtgccctgaa accaggatan nggggaaacn ngatcaagat 840  
gttagccagt agtttgtagt gnggttgga aatataggga attttttnaa aaaaatttac 900  
tttatttnn aaattttccc cttgggnaag ggattatggc ncnccaangg gngcccccctt 960  
aaanacnctg gttttcnnga ctttttttt nggggaccat ttggaaaaaa ttaangggga 1020  
agggt 1024

<210> 21  
<211> 1024  
<212> DNA  
<213> Homo Sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(1024)  
 <223> n = A,T,C or G

<400> 21  
 nagnngcang cncgagcgcg cgccagtggt atggatatct gcngaattcg ccccttcntan 60  
 cngnngncac tnaatgcang ngcnnaacca tgataacccg agttatgctn agcanaggaa 120  
 ctatatgtac agaaacatta agtgnggaaa gccnnacncn anggnanntg aatactacng 180  
 tnataactna ncagaccatt nanatgctgc acatttaaca nnnctnncan acagnanatt 240  
 ataanngnnt ananntatat atgctnatng accaaagctg tngaggggtg gccgttgaag 300  
 gcnnnnngnt nagecattanc atnttacnnc acttgccctgn cctntatggc aggggtacta 360  
 tctttgttac tgatcacgac atcantgcca acntaanacn aacnncntat nacacactng 420  
 nnanagcccg aatcgngnng gaacagtatc ntntcncnc canccnnaga catntnccnn 480  
 cctcttatcn tgancattcn agnttctgtg cacaggtna tgatnntanc ngtncaaan 540  
 tgnntcttna aasanttgc cacatnacct tngaggantt atggannaan actctcactt 600  
 taaanccnnc aancgacccc nanaanaactg tnctgntaac agtgcanaat gtgtgatttc 660  
 atagtnttgc acacacatnc ccacnggaan cacaggcggtg tgcactgaac attntagagg 720  
 ntacctatct gccgacacct aacactacng gtnacggcaa gatcggaacc tntaannngg 780  
 ttaacncaa cncataggat acccngggaa atatgtggcc caccgtttaa acccccgaag 840  
 tgcccggtac ccnggacatt gttttcgtgn cgggtanttg gttaaanttg ggntnaaac 900  
 cctaattccc cctgggggtt tgccactaaa tttgaaggac cttttggccc tgccaaaatc 960  
 annaacctg gcncanaact ttggggganc nggnnaggna gggtnnccct tttttccga 1020  
 aggc 1024

<210> 22  
 <211> 1024  
 <212> DNA  
 <213> Homo Sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(1024)  
 <223> n = A,T,C or G

<400> 22  
 gtgcgatgca tgcncgagcg gccgccagtg tgatggatat ctgcagaatt cgccctttcg 60  
 agcggcgcc cgggcaggtt cttttttttt tttttttttt ttttttttag attccacata 120  
 tgagtaaaat catgtggtat ttgacttgcc ttttaaaaca cagtgaagaa tctgtcttac 180  
 tttattcagg gtaggagaag ctacctgggc tccccataaa tgaggtgctc catcccatca 240  
 tacagcccca tcatattcag tgcttcccag atgacctcct caggggtgca gttagccctt 300  
 atgaagatta tgcttaggat aagtatgaga atgccagtct tgggcatgct ctggacatca 360  
 ctccagcatcc catcataggt gaggcccgag gaggtgacaa ggacaaagga gtggccagtg 420  
 ggatccactt cctttacatc aatgccaaag accagcagca tgcactcgga ggcttacta 480  
 aacaacaaag ggaagtggtc ttcataatct tttatgacac tctccaagta tttctgcctt 540  
 tgtgatcgcc tctttcattt gatacttgaa gagcagaaac tgcaccaa atcagtcacctt 600  
 ttcattctatc tcaattctgg gtaaaagactc actgtctggc aaggacctgg taggggtgctt 660  
 gggactcccc tctttttggc tgcngggagnc ctcanagat tgatctaag gaagggaac 720  
 aacgaccna ggggaaggag cagggtatc tngagcaacn ctggggaagg atttggggtc 780  
 nccatcatca ngcagnaaac tccctcccg gggtnccttg ggnanttaa gggatnccca 840  
 ggaaggagga nggagggan agggaggang agggaaaaac naggntngga aaaagggaacn 900  
 cggngggaaa ttggggntta tacaccgcn ncnnnaannn gggngagnc ngngnccng 960  
 tcngngcnnt gnttccnttt gggngaagnn ggnttctcnn anggncggn nnnnnnnnc 1020  
 cnnt 1024

<210> 23  
 <211> 948  
 <212> DNA  
 <213> Homo Sapien

<220>

<221> misc\_feature  
 <222> (1)... (948)  
 <223> n = A,T,C or G

<400> 23  
 acttttttct tttttttttt tttttccgtc tccccaaagc tttatctgtc ttgacttttt 60  
 aaaaaagttt gggggcagat tctgaattgg ctaaaagaca tgcattttta aaactagcaa 120  
 ctcttatttc ttctctttaa aaatacatag cattaatccc caaatccctat ttaaagacct 180  
 gacagcttga gaaggtcact actgcattta taggaccttc tgggtggtct gctgttacgt 240  
 ttgaagtctg acaatccttg agaatctttg catgcagagg aggtaagagg tattggattt 300  
 tcacagagga agaacacagc gcagaatgaa gggccaggct tactgagctg tccagtggag 360  
 ggctcatggg tgggacatgg aaaagaaggc agcctaggcc ctggggagcc cagtccactg 420  
 agcaagcaag ggactgagtg agccttttgc aggaaaaggc taagaaaaag gaaaaccatt 480  
 ctaaaacaca acaagaaact gtccaaatgc tttgggaact gtgtttattg cctataatgg 540  
 gtccccaaaa tgggtaacct agacttcaga gagaatgagc agagnagcaa aggagaaatc 600  
 tgggctgtcc ttccattttc attccggtta cctcaagggtg anctggtaaa agggggagaca 660  
 ttagaaaaaa aatgaancaa caaancaatt actaatgang tacctgcccg gggcgcccg 720  
 aaagggcgaa ntccaagcac acngggcggg ccgttacaan tnggatttcg aaccgggtac 780  
 caaancttgg gngtaancaa ngggncaana accggnntcc cgggggtgaa aantgtttat 840  
 ccgccccaaa attccaaaaa ancaatanga aaccggaaan cataaagtnt taaaccctgg 900  
 ggggggcccc aangantgag ccaaanccca attnaattgg gttggncc 948

<210> 24  
 <211> 1024  
 <212> DNA  
 <213> Homo Sapien

<220>  
 <221> misc\_feature  
 <222> (1)... (1024)  
 <223> n = A,T,C or G

<400> 24  
 taccggccctc gcacccctag taacggccnc cagtgtgctg gaattcgccc ttctatctg 60  
 tggacactta atgcaactgt ttaaaaatga taatcacgag ttatgtagca acgtggaaat 120  
 atatttacag aacattaagt ggagaaagca ggacacgaaa gtatatttat actacagtta 180  
 taactcaaca gttcatttat atgctgttca tttaacagtt catttaaaca gttcattata 240  
 actgtttaaa aatatatatg cttatagtca aaagctgttg tgggtgtgtt gttgtaggct 300  
 tatagttgag cattatttcc ttaaatttct tgaatgttcc ttatggtagt gttactaaaa 360  
 agtttatgat cacattttca ttgtgaacat aatttgaact cattatcaca cacttggaat 420  
 atacagaaaa gtggaggaaa aaaaatcata tccccaccat ccaaagacat atactctcct 480  
 cttatcttgt tcattcttgt ttctgtgcac aggtttatga ttataactgt gtcaaatgt 540  
 atattcaaaa tagctgttac attacctttg tggaattatg gttaaatact ttcactttta 600  
 ttttttcaaa tgttccctat aataatgtcc tgataacagt gtattatgtg tgtctccatt 660  
 ggtgtgcata atacataccc agaggaaaaa ttagaaaaa aagtaaatat ttttaaaaaa 720  
 ttacctatat tcccaacacc taacaactac tgnntaacca tcttgatctg ntctctctat 780  
 cttgggttcag tgcacacgct ttgngaataa cagtgggtta atatgtgtgc cataaaggcc 840  
 ttaaatggaa aagatgtggg aaaaataact taanaataag ggtggccttt ggggggaaat 900  
 ttggttaaaa aattttgggc tcnaaaattc cnttaanaaa acctttgggg gggttgggna 960  
 ataaaaatnt taanggangg aatnttcccn ttccantttt nattccctcc tcttcccaaa 1020  
 actt 1024

<210> 25  
 <211> 1024  
 <212> DNA  
 <213> Homo Sapien

<220>  
 <221> misc\_feature  
 <222> (1)... (1024)  
 <223> n = A,T,C or G

```

<400> 25
gccgtcnaga cncatgcncn agcgnncgnc nggtgatgg atathtgcng aattcgnccct    60
tccatcctaa tacgactcac tatagggctn nagngngcca ctattnncga tngaangacc    120
acngccatat taacaaacca aaaacctgtg cacagaaaca agatgaagaa aatatatcaa    180
gatgttaacc acactctttg gatggtgaaa acatgggtga gtttctcttc tacatttctg    240
taacttcaaa gnttctataa tgaacacatt tcatatataa tggaantata tgtagnaaag    300
gnggactacc aaaacactag aatgatgacc tttcaaggaa accgaaacaa aataaccata    360
atcccacaac aaccacacaa ctatttcttg gttntcatnt ttcttcccat ctttgacatt    420
tatgcatact tatcactaac accctaataa tccagactag tgcacagatc aagatgttaa    480
cagttaattg cngntgggtg ttgggaatgn gcgtgaattt tctttactga atttccaaag    540
ttttgtatga gnntgtatna natttgtaan ggaaaataca tacatnaaat ttattaccaa    600
aacaccaaag attatttaag gaatttgaga cnaaatattt aacccaaatt ccacaatgcc    660
aacactnttt taggnatttt ccacatcttt tcntttaaga ctttatgcnc ccataaatgt    720
aacactggta tcacaaagcg tgtgcactga aaccagggat nnagggaacc gancaagatg    780
ttnnccagnag ttggtangng gatnggaaaa taggnaattt ttaaannaat tnacttttat    840
ttccnanatn tcccttttgg gatgncttat gcncctccat gggggncccc ctttanance    900
ctggtaatca nggcnntttt ttttggggaa cttttggaaa aaanttnaag gggaangttt    960
ttacccataa tttcccaaaa ggnanggggn acnctntttt ggaanatect ttnggcnccct   1020
tttn                                     1024

```

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<210> 26
<211> 1024
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1)...(1024)
<223> n = A,T,C or G

```

```

<400> 26
gtgcgatgca tgcncgagcg gccgccagtg tgatggatat ctgcagaatt cgccctttcg    60
agcggccgccc cgggcaggta cttttttttt tttttttttt ttttttttag attccacata    120
tgagtaaaat catgtggtat ttgacttgcc ttttaaaaca cagtgaagaa tctgtcttac    180
tttattcagg gtaggagaag ctacctgggc tccccataaa tgagggtgctc catcccatca    240
tacagcccca tcatattcag tgcttcccag atgacctcct caggggtgca gtagccctct    300
atgaagatta tgcttaggat aagtatgaga atgccagtct tgggcatgct ctggacatca    360
ctcagcatcc catcataggt gagggccagg gaggtgacaa ggacaaagga gtggccagtg    420
ggatccactt cttttacatc aatgccaaag accagcagca tgcactcgga ggcttcacta    480
aacaacaaag ggaagtggtc ttcataattt tttatgacac tctccagtat ttctgccttt    540
gtgatcggtc ccttcatctg atacttgaag agcagaaact gcaccaaact agtcaccttt    600
tcacttatct cacttctggg gtaagactc actgtctggc aggacctgta ggggtgcttg    660
gactctcttc cttttggctg ctggagccct caacaagatt gatctaattg gaagggaaac    720
caaccnaccg aangggggang gagcaggctn ttctgaagca ctctggggga aggatttttg    780
ngtnncncnat catncagcan gnaaacctcc cnccgggggt gccttggnna ttananggtt    840
agcaaggang gaggacgnag gaananggan gnangnaggg aaaaagangg attggaaaaa    900
aggganccctn ggtgggaaat tggggttttt nagcaatccc cnccaaaaa ncnaggggaa    960
ccctgttcaa cccncanggc cnggnttcca cttttggaat ttgaaanttt cctcaaggaa   1020
ngaa                                     1024

```

```

<210> 27
<211> 935
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1)...(935)
<223> n = A,T,C or G

```

```

<400> 27
acgcgggggtg ggggggggtcc tggctctttg cttctcgact cggctcctgtt tcgacagcga    60

```



acatgtcgcg	gcctgtcaga	aataggaagg	ttgttgatta	ctcacagttt	caggaatctg	120
atgatgcaga	tgaagattat	ggaagagatt	cgggccctcc	cactaagaaa	attcgatcat	180
ctccccgaga	agctaaaaat	aagaggcgat	ctggaaagaa	ttcacaggaa	gatagtgagg	240
actcagaaga	caaagatgtg	aagaccaaga	aggatgattc	tcactcagca	gaggatagtg	300
aagatgaaaa	agaagatcat	aaaaatgtgc	gccacaacg	gcaggcggca	tctaaagcag	360
cttctaaaca	gagagagatg	ctcatggaag	atgtgggcag	tgaggaagaa	caagaagagg	420
aggatgaggc	accattccag	gagaattccg	gcagcgatga	agatttccta	atggaagatg	480
atgacgatag	tgactatggc	agttcgaaaa	agaaaaacaa	aaagatgggt	aagaagtcca	540
aacctgaaaa	aaaagaaaa	aaaatgccca	aaccagact	aaaggctaca	gtgacgccaa	600
gtccagtga	aggcaaaagg	aaaattnggt	cgccccacag	cttcaaaggc	atcaaanggg	660
aaagaatccn	tctccaaaag	aagaaagatg	agggaaaccg	aaaaccccc	agaaaaggaa	720
aacatctana	agccccccaa	cccagaaatc	tggggataaa	ggggctgaaa	aataaacccc	780
cntttggggg	agnttttaaa	ttatgaangg	ntgggggaaa	aaattttttt	aaaaaannnn	840
nnnnnnnnna	aaaaaanttt	cctgccccgg	ggggcgccnc	naaaggggga	anttcaanaa	900
aaangggggc	ggtttaaaaa	gggggttcca	ccccn			935

&lt;210&gt; 28

&lt;211&gt; 1024

&lt;212&gt; DNA

&lt;213&gt; Homo Sapien

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(1024)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 28

cttggcnaccg	ccctcgatc	cctagtaacg	gccgccagtg	tgctggaatt	cgcccttccct	60
atctgtggac	acttaatgca	actgtttaaa	aatgataatc	acgagttatg	tagcaacgtg	120
gaaatataat	tacagaacat	taagtggaga	aagcaggaca	cgaaagtata	tttatactac	180
agttataact	caacagttca	tttatatgct	gttcatttaa	cagttcattt	aaacagttca	240
ttataactgt	ttaaaaatat	atatgcttat	agtcaaaagc	tggtgtggtg	ttgtgtgtgt	300
aggcttatag	ttgagcatta	ttttcttaaa	tttcttgaat	gttctttatg	gtagtgttac	360
taaaaagttt	atgatccat	tttcattgtg	aacataattt	gaactcatta	tcacacactt	420
ggaaaataca	gaaaagtggg	gaaaaaaaaa	tcatatcccc	accatccaaa	gacatatact	480
ctcctcttat	cttgttcatt	cttgnttctg	tcacacaggt	tatgattata	actgtgtcaa	540
aatgtatatt	caaaatagct	gttacattac	ctttgtggaa	ttatggttaa	atactttcac	600
tttaattttt	tcaaatgttc	cctataataa	tgctctgata	acagtgtatt	atgtgtgtct	660
ccattgtgtg	gcataataca	taccagagg	aaaaattaga	aaataaagta	aattatttta	720
aaaaattacc	tattatcccc	aacacctaac	aactactgnt	aacatcttga	nctgggtccct	780
ctatcttggt	tcaagtgcac	accgcttgng	aataacaagg	gttaaaaatg	ngngccataa	840
aggtcntaaa	atggaaaagg	atgtgggaaa	aatnaccta	aaataggggg	ggccattggg	900
gggnaatttg	ggttaaaaaa	tttgggctcn	aaaatncctt	aaaaaaaanc	ctttgggggt	960
tttgggaaaa	aaaaatttta	ggggagggaa	ttttccattt	ccaaatntta	ntcctacttc	1020
ntta						1024

&lt;210&gt; 29

&lt;211&gt; 1024

&lt;212&gt; DNA

&lt;213&gt; Homo Sapien

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(1024)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 29

taggatnca	gctcgagcgg	ccgncagtg	gatggatgc	tgcnagaata	cgcccttcca	60
tcctaatacg	actcactata	gggctcgagc	ggtcgcccag	gcagggtgcta	acaaacccaa	120
aacctgtgca	cagaaacang	atgaagaaaa	tatatcaaga	tgtaaaancac	actctttggn	180
tggtgaaaac	atgggtgagt	ttctcttcta	cntttctgcn	antncanagn	ttctataatg	240
aacacatttc	atatgtaatg	ganntntntg	tagtgnaagg	tggactaccg	gaacactaga	300

atgatgacct	ttcaaggaaa	ccgaancaaaa	ntnacntan	tcccacaana	accacannac	360
tattncntgg	tnntnatggt	tcttcccatc	tttgacattg	atgcntactt	aggactancg	420
ccctaataat	cccagacttn	ggcacagatc	aaganggtaa	cnggtgattg	gaggtgggtn	480
gccggaantt	ggggtgantg	ttntttatgg	anttnccann	ttttggtang	ngattgnnna	540
aaattngaana	nggaaacnct	tacttnaant	tgnttaccnn	aacnccnagg	atnttttaag	600
gattnggggc	cnaaattttt	acccaaattc	cnncaangcc	ancnctgtnt	aagtcatttt	660
caaanTTTTT	tcncttaaag	accttaaggc	cccctaagggt	aacctgggaa	tanaaggggg	720
ggcacntggn	accaggntcc	nagggaaacng	nnccaagant	tttccccntt	ntttgtttgg	780
gggttgggaa	atnnnnngnaa	atttttttaa	ggtaatncac	ttaatttgcc	aaaggaattc	840
ccttnggggg	nggnnttatt	gcncacccat	gggagacccc	cnaagggccc	cnggaataag	900
ggcctttttt	tttngggacc	atttgggaaa	aatttaaang	ggaaggcnnt	ttgnaccctt	960
aatttcccca	aggnaaangg	aaccnccent	tttgganatt	gcattttngg	ccccgttttt	1020
aagg						1024

<210> 30  
 <211> 1024  
 <212> DNA  
 <213> Homo Sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(1024)  
 <223> n = A,T,C or G

<400> 30						
gtgcgctcta	gatgcatgct	cgagcggccg	ccagtgtgat	ggatatctgc	agaattcgcc	60
ctttcgagcg	gccgcccggg	cagggtacttt	aattttgctt	gttcaaatga	tctacactta	120
cattttgcaa	atcttttttt	ttaaattttt	taaattttat	attttttttc	cagccaactc	180
aaggccaaaa	aaaatttctt	aatatagtta	ttatgcgagg	ggaggggaa	caaaggagca	240
caggtagtcc	acagaataag	acacaagaaa	cctcaagctg	tgaggtcaat	ttgtaattaa	300
aagaatacta	agattagatg	aacacaacac	tcagaaatac	tctaggagag	ctgaaaaaga	360
aggaacagat	gttaacaaaa	caaattaagg	ctgctgggga	acctgagtcc	atgttaagct	420
tgggttgact	gtaaaagaatt	tttttttttt	taatgcaagt	tagacatgga	gttagagggt	480
cagataaata	acgaagagaa	ttaagtttagc	gatagaaaga	tctaaggata	ctagctcctg	540
ggcacctagg	gtgcaaaactg	acttgtggca	gcataagctg	atgctgcaca	ggggacccaa	600
gccatgttgc	tacttgtcac	ttaaggcang	aagcgcacaa	aggaagtgat	gaaagggtat	660
tagcctgcaa	cattattttac	agcatganag	cctctcctac	gggtcccaac	cttcattagg	720
cactactggt	gattcaagtg	aatgggttgt	aacccantcc	ttaaaaggca	aaggatgtta	780
ggantttaca	gggaaaaaag	cttcgggggt	tttancaatt	caccaatcan	caaaccacat	840
attgaagttt	gggttaaaaa	aaaaanannn	anaaaaaagt	ncctcggcc	gngaacanc	900
cctaaggggg	naaattccag	canactgggn	gggcgntta	caaaggggtt	cgaaccncgg	960
taccaaacct	tgggggttaa	ncaaggggca	aaancgggtt	ncccgngggg	aaaattgttt	1020
nccg						1024

<210> 31  
 <211> 1019  
 <212> DNA  
 <213> Homo Sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(1019)  
 <223> n = A,T,C or G

<400> 31						
gtgngatgca	tgctcgagcg	gccgccagtg	tgatggatat	ctgcagaatt	cgccctttcg	60
agcgcccgcc	cgggcaggta	ccatgctgac	ttcttggtat	cttttaaggc	ctaattttcc	120
cttccttgag	attactgtag	tgtgttccag	ctaattttcta	tttggaacg	agttggaaca	180
gctgaaaact	aggtattatt	gaaggcaaa	cagcctcacg	tcagtttttt	atcagctcat	240
ttgggaagtt	tttttttttt	ttttttttta	attaattaga	aagtaggctg	ggcacgggtg	300
ctcatgccta	taatccagc	acttggggag	gccgaggatc	tcctctctgg	tggatcactt	360
gagggcgagg	gttaagagac	catcctggcc	aacatgatga	aacctgtct	ctactaaaaa	420

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tacaaaaagt agctggcggt ggtggcatatc tcttacaatc ccagctactt gggaggctga 480
ggcaggagaa tcacttgaac cttaggaagca gaggttgagc tgggcccaaga tcacaccact 540
atactctagc ctgggcgaca gaggtgggga aaaaagtagg acccctgtcc tatattcagg 600
tttttctcac atatatgaac ccatctaaat tctacgttgt taaaggtaac ttaggttaat 660
taagtccata cttatttaag accaatatgg ggtgaaatgg gatttttttt taaaaatcct 720
acagntnagg ctttccnact ttccctcnaa atgaggaaaa aaagggtgaca aaaattcaag 780
tgtcaatgtc ccctcctggg gaaanagggt tanaaaaaca acaggctcaa ccttctgaac 840
tnctaacaan ttcccttnga aanttaacga anccattaaa atcnngattt taaaagagga 900
aaanaaaaaa gttcctcggn cggnnacaan cctaagggng aaattccaca aaaanngggg 960
ggcctttana aagnggttcc nacccggtac aaaaccttg gnttaaccan gggccaant 1019

```

&lt;210&gt; 32

&lt;211&gt; 1024

&lt;212&gt; DNA

&lt;213&gt; Homo Sapien

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(1024)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 32

```

accgccctcg natccctagt aacggccgcc agtgtgctgg aattcgccct tgtgtgtggg 60
tgttgggaat atgtgtgaat tttctttact gaatttccaa agttttgtat gagtatgtat 120
tatatttcta atggaataaata cacaataaa atttattacc aaaacaccaa agattattta 180
aggaatttga gacaaaatat ttaaccaa tcccacaatg acaacactat tttagttatt 240
ttccacatct tttcatitaa gactttatgc acacatattt aacactgtta tcacaagcgt 300
gtgcactgaa acaagataga ggaaacagat caagatgtta gcagtagttg ttaggtgttg 360
ggaatatagg taatttttta aaataattta ctttattttc taatttttcc tctgggtatg 420
tattatgcac accaatggag acacacataa tacactgtta tcaggacatt attataggga 480
acatttgaaa aaattaaagt gaaagtattt aaccataatt ccacaaaggt aatgtaacag 540
ctattttgaa tatacatttt gacacagtta taatcataaa cctgtgcaca gaaacaagaa 600
tgaacaagat aagaggagag tatatgtctt tggatgggtg ggatagatt ttttttctc 660
cacttttctg nattttccaa gtgtgtgata atgagttcaa attatgttca caatgaaaat 720
gtgatcatta aacttttttag taacactacc aataaaggaa ccatttcaag aaaatttaag 780
gaaaaataat gctcaactat taagcctacc acaaccaaca cccacaacag cttttggact 840
attaagccta tatattttta acnggtatta atggaactgg ttaaatgaac tggtaaaagg 900
aaccgcatnt taaatggact ggtgnggtta taaccggtg tataaaaaa cctttggggc 960
ctggtttttc ccttaanggt ctgnaaanat attttcncgt ngtcacanacc ncgggatatc 1020
aatt 1024

```

&lt;210&gt; 33

&lt;211&gt; 1024

&lt;212&gt; DNA

&lt;213&gt; Homo Sapien

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(1024)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 33

```

gcctcnaaga cncatgctcg agcggncgnc agngtgatgg atatnnngca gaggncgccc 60
ttccanccna atacgacnca ctataggcgn nncnnntng gcnnctttgn tgccctccn 120
ctcgnaataa anctatatta acgaaattgt nctggccttg agttggctgg agagaaatat 180
tnngagnnnn accngtnnnn ntngnnnatc ngtaantgt aanagtagnt catttgaaca 240
agcaatnatt naantaccca ctggnggaaa ngngnctgaa tcttactctt ntggatctgc 300
aggantaggg cttgttagta tgtcaaanat gcnnncagtg tcaangttaa ngccnattgt 360
aganctngta gcaggaannc acnntgagg ancnncagaa nggagncctn anacatnncc 420
agatntacga gngagagga gacanacnga gaaagacacc ntagnnnga nctgnagaag 480
gncaggattc tgagaatgaa ntgcncggn agtccnganc agattggaaa aggagnttct 540
ganggnatgg tgcacnngag ggctgacngg tangagnnac tgntgttggg acgnacatag 600

```

```

cgaaagntgn tngncagtga ggattactac atgnngaaag gactcttgaa acgaggaact 660
aactgtgatg ncanggctga agtttgggcn nccatacttt gnaggttaca attnttngca 720
gtggncgcncc cgtttaaana gccnttttga tggaaantca aggggtgnncg gtacnacctt 780
ccnttttaggg nacaaggcnt tnccgantgg gtngccagga agaanganng ccnnanccct 840
annnggnggg ccccttaatn gcacnggggtg aacaatgcna accctcgggt tattggaacn 900
accngggana anatggttac cgaaccatta ngtgggggna aaccgggacc ccggaaggct 960
ttttttnect cngggtaaaa acttaacaga ccnatttttt gcccgcctt taacangtct 1020
tttt 1024

```

```

<210> 34
<211> 982
<212> DNA
<213> Homo Sapien

```

```

<220>
<221> misc_feature
<222> (1)...(982)
<223> n = A,T,C or G

```

```

<400> 34
acaacaatct aagcaaatct caaatacaac atacttgtaa ttagaacaca atgcaatgac 60
ttgatttttag caagaactag acacttaatt tggtaaaaga aaccaaacia tgcattatat 120
tgaataactaa cgtcaagttac cataattagt cttacaaatt ctcaaatttc acaactactt 180
ttgaacatct aaatttaaac cttaaatttt taattaaatg cctgttcaac aaagctaatt 240
ggaacaaaaca catttatgta aatttacatt ctagaatacc agggtaaaaca aggagacgtt 300
attcaaagat gaatgagaaa gttctattct ttttcatcat ttgtgtgatc aggttgcaaa 360
ggacatgctc tttcctcgat gaaactgatg tcgaattagt ggcagagggtg gaagaaccaa 420
gcacctttct gggggctcga gcagccacca cttttctgta agtgccctggg aacactgtct 480
gcttttagtcc gcaccatgtt caaacaagaa gagaggagag gagagaacga actgacttcc 540
cagccgaagg tgtttcactg ggacaaggcc ccgcgttacc tgcccggggc gggccgctcg 600
aaanggcgaa tttccaagcaa cactgggcgg gccgtttacn nagtgggatt cggngctcgg 660
gtancaaggc ttgggggtaa tcaaggggca atagccggtt ttcccnnggg tgaaaaatgg 720
tnttccnggc acaantccca nacaancatt ccgaagccgg gaancntnaa agtgttaaaa 780
ncctgggggt ngcccaaatg angtggngct naactcccat ttaaattngc gnttgcgccc 840
nannggcng cctttccaat tncggggaaa cctgttncgt gccaaagtcg cantaaagaa 900
atcncggcna antccccggg gnaaaggcg ggnntgccgt nttggggggc gntttccggn 960
tttccccggc caaagggann ng 982

```

```

<210> 35
<211> 1024
<212> DNA
<213> Homo Sapien

```

```

<220>
<221> misc_feature
<222> (1)...(1024)
<223> n = A,T,C or G

```

```

<400> 35
cttggcccg cctcggatcc ctagtaacgg ccgccagtgt gctggaattc gcccttccat 60
cctaatacga ctactatag ggctcgagcg gccgccggg cagggtataaa atttaaaaaa 120
tttaaaaaaa aagatttgca aaatgtaagt gtagatcatt tgaacaagca aaattaaagt 180
accactggg ggaaatgtgt ctgaatctta ctcttctgga tctgcaggat tagggcttgg 240
aagtatgtca aagatgcagg gagtgtcaaa gtttaggaag attgtagagc tgagagcaag 300
aagcagaaat gagtgtgca aagaaggagg tctaataca tcaccagatc taggagggga 360
gaggagacag acagaagaaa acaccagagg caagaactgt agaaggccag gtttctgaga 420
atgaattgag cgggggtgtcc tgagcagttt ggaaaaggag tttttgatgg tatgggtgag 480
gtgagggctg gctgcatagg aaggactgag gttggagcgg acatcgggaa agctgagggg 540
cagttaggtt tactacatgg gaaaaggact cttgaaacga gaatcagtgat tatgttcagg 600
gtgaactttg tgggtacatt acttgggtgt aacattgggt gcagtggtta gcccttttc 660
agaaagcaac ttgcttgtaa gtcanggtgt ccggtccaac ctttaactag tgaaaaggta 720
gtaaccaatg gtaaacagg agaatgatt gttnaaccct atctgnggac acttaaatgc 780

```

cactgggtta	aaaatggnaa	tcacgagttt	tgtancaacc	ggggnaatat	atttaccgga	840
acctttantg	ggnaaaagcc	ggncnccnaa	ggntttttat	tncttcnggt	tttaacctta	900
acaggtncaa	tttataatgc	cgggccattt	aacaggtcat	ttttaaccgg	gtcnnttttt	960
accnnggtta	aaaaanntnt	atgcctttag	gncaaaaanct	ttttnnnggg	gnttnttggt	1020
nang						1024

<210> 36  
 <211> 1024  
 <212> DNA  
 <213> Homo Sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(1024)  
 <223> n = A,T,C or G

<400> 36						
taccgcctcg	natccctagt	aacggccgcc	agtgtgctgg	aattcgccct	tccatcctaa	60
tacgactcac	tatagggtc	gagcggccgc	ccggggcagg	tagcaaatgt	tgtggcattc	120
ctcctcctcc	tcaagtcttt	acccgaaact	acttcccaag	agaggttgct	cttcccaaag	180
aatcacctgc	cttgggacca	tatggggcta	ggctgagggt	caggagccaa	gagcctgggt	240
ccaactctgt	ctgtggctta	ctgtgagacc	ctaggcaagt	tgcttaccct	ctctggggct	300
caaattcttc	ctctttgaaa	taggaataat	aacttcatca	ctagaattct	tcacctgggt	360
gttgtgaagt	taatcagaat	aaatgtggag	ataatacatg	aatgagcgta	cagaatatta	420
tttggctggt	ctgtggcatc	gatataagtc	atgatatgta	caatagtgtc	tgctattgta	480
ttccacacca	cttcttcctc	cagctaaagc	aggaaaagaa	aggaggttaag	tctctctgtg	540
ttttttcttc	ctttccccaa	gcccactttg	ttaccttcct	tggttgctgg	atgagaaatt	600
agtcagaggg	tcagagagga	cctcaacttc	atatgcttta	aatagagcat	atgcaatttt	660
aaaccatcct	cttaaccaat	ttttcttttc	ttttcagttt	ttccccagtt	atacttccac	720
atgatacacc	agagaaggaa	gatactttct	catactgaag	aacacaagaa	atttgaatag	780
ttcctgcttt	ctgnaccttc	cacccaaaaca	aacttttcaa	tgatccaaaa	aactggcttt	840
gnactgggga	gtcacggaat	gggccggctt	ccangganca	tgccggnnng	gcctttgcgg	900
ngtcgggctt	gtggtggcgg	cggaaaggna	accgggggca	tggnntnccg	agcctggctt	960
tgccccccng	ggncatggtg	tggaggcaaa	gaancctgaa	gtccccacng	gccccgggga	1020
agna						1024

<210> 37  
 <211> 1024  
 <212> DNA  
 <213> Homo Sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(1024)  
 <223> n = A,T,C or G

<400> 37						
cttggcaccg	cnctcggatc	cctagtaacg	gcccgcagtg	tgctggaatt	cgcccttcca	60
tcctaatacg	actcactata	gggctcgagc	ggccgcccgg	gcaggtgaat	tcagcggccg	120
cttttttttt	tttttttttt	tttttttttt	acaggggcgg	tttttgtttt	atttctgctt	180
ttttcccttt	ttcttaaaaa	aattaaataa	agttctcatt	atttccccaa	tatacatcaa	240
atgagttttc	atgcaaagca	gcagtcacag	aggcagaact	gtccccagct	cgtgcctntc	300
ggcttgaaga	accaccttnt	cccggccccg	ggttctctgg	ngttctcact	gaggatggac	360
gacgcccact	gtctntccca	gctggaactg	gctatgacga	aacttggtcg	gcgtagggag	420
aggagtcttc	ccctntcccc	aggatggggg	ctcaggggac	agcaagctct	ggggcctgat	480
ccccatcact	tgnccttcca	tctgagactc	ccagtgtgac	agcttggaac	ggtccctctt	540
cccaggaatg	cgaggctcct	cctctcagct	ctcaatggac	atggcattaa	tgagctgctc	600
caccttataa	gccagccgnt	gccgccgtgc	ctgctcatcc	tgctctaggg	ccccgatgag	660
ctcctcacta	tacttgctga	cataggagta	gatctcattg	ggggcactca	acatgttgaa	720
actccacggn	gtgcaggcgg	gactgctcgg	cgagggtagg	cattcatggc	ctggtcactg	780
gatggctggg	aaccttggcc	aaggctgcgg	nagnatcttt	ttcccccagc	tnntggnaac	840
ttgggggaagg	cccttgggca	taaaaagcaa	cttggttgga	anggggagg	ctttgcccaa	900

```

ccccgggggct ttggacgttg gaacaagagt nccttgaagg gtttgggncc ccncaaaaa 960
ngcangcntc cgggaaagcc gcccttgggg gtgncaaaac ccnnaactgg ggggtntntn 1020
aanc 1024

```

```

<210> 38
<211> 1024
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1)...(1024)
<223> n = A,T,C or G

```

```

<400> 38
taccgcectc gcatccctag taacggccgc cagtgtgctg gaattcgccc ttccatccta 60
atcagactca ctatagggtc cggcggccgc ccgggcaggt gccgcttttt tttttttttt 120
tttttttttt tttttgttc acaactgttt attttaagct gaaacttcaa tattcattga 180
ttacctataa taatagttag tcataaatgt agttaataat taaatataaa aattattatt 240
tttacattta tataaatctc tgaanaatct caagttttga gagatagagc aagaaattgc 300
ttanaaaatt gcaggaagcc tgaanaatct cagcatcagt caaagcaggt ncaacaaaaa 360
acaatttttag acattcattt ttgcttttaa gaggctttaa aataaatgat cacagaatga 420
ataactgatg tatggcaaaa atgagtttaa aactatgtaa gctccaaggc cccaatgtgt 480
ataagaattc tttggaagga ttttgaagga ctgtaaatgt tgcaaatata agtaaaaact 540
agtagttagg caatgngttt taaactatag ngtcacctac tgntcttctg gtgcctaact 600
gnattcttca acatcttctt ttcccttttg attagaaatc ctgggtctacc tcaaagggtt 660
tgcaattgntt tctagggaca tcagcaaaact ggtagaccat atgagaaaaca gaaataaaca 720
gtaatattat ctttagaat taagcattat gtacncagtg agaaatggat tgacttgata 780
gaccttaaac ccccttcttc ctttcacacc ctttntagna ccacctaanng gtatccggat 840
tggggatggg gcccnctnt ggtaatcccc cttnnagtcag gacaggggcc cctaagggcc 900
caattttntt tcgaattaga gaaatncccc attttttggg ggggtggcaa gtnttanccc 960
anggcttgca aaggcttntt tttgaagana cncccaaacc cggggncctn tttttcngga 1020
atca 1024

```

```

<210> 39
<211> 1024
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1)...(1024)
<223> n = A,T,C or G

```

```

<400> 39
tcgcccagagc agnangcncn agcggncnnc agtgtgatgg ttatngtggn gnnttcgcnc 60
tnccatncta atnctactca ctatagggnn cntgngncnc nnggcagtn ntnacnntn 120
annngtgtaa ctgatatcat ntcncnana ccatgggttac atnnanntag gtctcnnang 180
nataccangc tntgagagnt ngaccnggaa ntcgnttnga aannttgngc gangccngat 240
caatatccnc atcngncaca gcgntccgc aagctgacaa tnctgnanat tnattnttgg 300
tttannganc nnttacangn atggnncccn gagatgcatg nnggagtatg gcaaagatgn 360
ntgtaaaact atgtaagctc naaggcccca atgtgnataa cagttcntgg nanggantnt 420
ganggantgt aagngntnaa nntnaangnn anannnaaga ggtangncat gagcccnaaa 480
ctgtagnnnt anctacagng cttanggcgc ctacctggga caggcnacgn cttcattaac 540
cttttgatta gaannacggg ggtaacncac nggttnngca tgggccagta ggngcattgn 600
ccngcngggc aaccatatgc tngncncaa taaacggtgc ttttanctca nnagattaaa 660
gctttttggc cacaggggna aaagnatggc ttganaggcc ttaaaccccc gtactcngtn 720
cacccttttn gagaaccncc taacgggatc tggaaatgng atggcccccct ntgggaaac 780
nccctanaag anacctcngg ngaccocctt nggcccattt tgangtttag nacngcaatt 840
tncccathtt tgnggttttt gccaacccca agncatnggc tggcaatgga ntgnnttttc 900
caatagaanc aaaccccggn tnttttttgg ggggnatcag gggttaagggn nttggcaaaa 960
nnaaannggc ncnnngnaaa aatttttccc nggtntatcn aaanncccca aagcttttng 1020

```

caan

1024

<210> 40  
<211> 1024  
<212> DNA  
<213> Homo Sapien  
  
<220>  
<221> misc\_feature  
<222> (1)...(1024)  
<223> n = A,T,C or G

<400> 40  
nggacgcgatg ctgcagcggc cgccagnng atggatntng tgcagaantc gccctttcat 60  
gcctatgata ccngcacttg gngaggccga ggatctcctc tctgggggat cacttgaggg 120  
caggagttaa gagaccatcc tggccacccat gatgaaaccc tgcncctact nnacatacag 180  
gaagnagctg gncgngntgg catactctta caatcccagc tacttggnag gntgangcag 240  
ganaatcact ngnacctang aagcagaggn tgcantggn ccaanancac accactatac 300  
tntagcctgn acgacagagg tgntgataa agcngggacc ctgactatat ncaggntttt 360  
ctgaentnna nnancncatc taaatnctac gccgntngag gtcgcntagg ttangtagnn 420  
natnctnatt tatgaccaat atgntgtnan acggcntnnt gntnaaaant tntacagnan 480  
ggcngnctac nttntctata atgnggaaaa cggtgntga natncangtg nnnnngtccn 540  
ntntntgna agaggnttng aaanncanca gtgcaccttn tgaactctac nagnagcttn 600  
tgaagctaac naagcnttaa natnagatgg cntgntagga ctgtacnngc anggaaagat 660  
tcacaaaaat ggacattctt naccgagata ngntcttgct ttaccgggga ggacnnntcc 720  
aaggntgtnt naagagggac agtcagctta gtnntgctng ggtagagaaa accangactt 780  
natntgtgag cttgatnggc agaacctggg nanccttgga agagcntnga ttgnccngat 840  
ccctgaaagg gcnntcttna ccctatcggg gaccttnnna acctcttang tggcacgcaa 900  
ggcaacnaacc nggcncttt caagaatcnc nggaatcnag gccctttct tgggntnanc 960  
cngnnnnncc cgttnagncc cncgggnaaa anntcttggg nntttccaat cccngngggn 1020  
nttt 1024

<210> 41  
<211> 1004  
<212> DNA  
<213> Homo Sapien  
  
<220>  
<221> misc\_feature  
<222> (1)...(1004)  
<223> n = A,T,C or G

<400> 41  
ggtnnnntta atcatcgccn gcttggtacc gagctcggat ccctagtaac ggccgcccagt 60  
gtgctggaat tcgcccttag cggccgcccg ggcaggtaact tcccaccact ggaaatgtta 120  
gcataaaaaga acctggagag gaaaaaagta ttaacaaaac tgcagtctgc actctttaa 180  
cctgttttaag gctcttcac cttggttagca aaagggtgta atgtaatgtg atggaattta 240  
aaagttttat gagaccagge acagtggctc acgactgtaa ttccagcagt ttaggaagcc 300  
gaagtgtgca gatcacctga ggtccggaga ccagcctggc caacatgggt aaacctgtc 360  
tctactagaa atacaaaaat tagccagggt tgggtggcggg cgcctgtaat cccaactact 420  
caggaggctg aggctagaga atcacttgaa ccagcaggc ggagggttgc gtgagtcgag 480  
atcacgccat tgcactccag cctgtgcgac aagagcgaaa ctctgtctca aaaagatttt 540  
ataagaaagc agagcttttc cttgaagctc ttttgaagtg gtgacttaat tagtattttg 600  
ntgaaaatac tttaaagatg cctagtgaag agcctactaa agtgcgtgta aaaatgggg 660  
ttanaacatt ttattttcan gctttatggc ctattttcca ttgnggcaag tgcaaaaacta 720  
ccctggccca aangaagggc agagaacata attacctctt anggcacatt tcattctttg 780  
cagctttgtc taatccagtn gctaagttct ttacctnaac cctgnaggna ttgaacntta 840  
ttncatttn ngnaaaaggg tcacctntt nnnacaatnt tncannanct ttttnggaag 900  
ttanccnttg gccttaaaan ttnaaaantc cntntggnt tccctttatn ccccnangg 960  
gnnnantang gnttggtatt ttaanggncc ttggccngaa cccc 1004

<210> 42

<211> 1020  
<212> DNA  
<213> Homo Sapien

<220>  
<221> misc\_feature  
<222> (1)...(1020)  
<223> n = A,T,C or G

<400> 42

nnnnnnnnnn	nnnnngattg	ggccctctag	atgcatgctc	gagcggccgc	cagtgtgatg	60
gatatctgca	gaattcgccc	ttagcgtggg	cgcggccgag	gtacctttga	taattcctag	120
acctctat	tcattctgtg	tattaatgtg	aataacagat	ggatatttta	atatttaagg	180
cagatggtaa	actttcctat	aggtcttg	agacttcg	ttataggctg	aacaccattc	240
acaaaatgta	ataatgcttc	attccttcag	gttgaggtaa	agaacttgag	caactggatt	300
agcaaaagctg	caaagaatga	aatgtggcct	aagatgtaat	tatgttctct	gcccttcctt	360
tggggccagg	tagttttgca	cttgacacaa	tggaaaatag	gccataaagc	ctgaaaataa	420
aatgttctaa	accccaatct	cacagcactt	tagtaggctt	ttcactaggc	atctttaaag	480
tattttcaac	aaaatactaa	ttaagctacc	acttcaaaag	agcttcaagg	aaaagctctg	540
ctttcttata	aaatcttttt	gagacagagt	ttcgctcttg	tcgcacaggc	tggagtgcaa	600
tggcgtgatc	tcgactcaac	gcaacctccg	cctgctgggt	tcaagtgatt	ctctagcctc	660
agccttctgg	agtaagttng	gaatacaggc	gccccgncaa	cacacctggc	taaattttgn	720
atttctagta	naanaccagg	ttttnancat	gttggncagg	gctgggtctc	cgggaaccttn	780
angtgatctg	gacacctttg	gntttcttaa	actgggtgga	aattancagc	gggaaccnct	840
ggggcctggc	tcattaaacc	tttaaaatnc	cttnccattc	anttcnacc	ttttggtaac	900
cccgatgaa	aaccttnaa	ccgggtttta	agnangcna	nnnggggnat	ttgtaaaact	960
ttttcccnt	tccaagtct	ttaagccaan	nntttncng	gnnnnggan	ccctnccggc	1020

<210> 43  
<211> 1020  
<212> DNA  
<213> Homo Sapien

<220>  
<221> misc\_feature  
<222> (1)...(1020)  
<223> n = A,T,C or G

<400> 43

ggagnnnntt	aaacgccagc	ttggtaccga	gctcggatcc	ctagtaacgg	ccgccagtgt	60
gctggaaattc	gcctttagcg	tggtcgcggc	cgaggtactt	tttactgctt	tgtcttcaag	120
gcctagtgtg	ataattaaca	tctagtatgt	gtttgatgga	tagccaattt	ttgcttcatt	180
ggtatgttgt	taccacagtc	attggtagag	tcaatatatg	aatgaagaaa	gtataacaaa	240
tttgccctct	agtagagtac	tttttttttt	tttttttttt	ttttgttttt	tttttttttt	300
tttttttttt	tttttttttt	tttttttttt	tttttttttt	tttttttttt	tttttttttt	360
tttttttttt	ngnnnttttn	ncnttttttn	aannaaaaan	cggcccnann	accnncenn	420
nnnttttttt	nnccnggccnn	ccnggnttng	gggnnggggn	cnttnggggc	cnnnnggncn	480
cttttttccn	naagggtttt	ggggttttng	gggnaaantt	tnggnncnan	nnngggccna	540
aaaaanttnn	gnccnanaaa	cgcnnnttcc	nannnnnttn	cnttggggcc	caaaaanttn	600
cgnaaccenn	tgggcnnaaa	gggcnttgnt	ttttttgggg	nncccnnaac	canggggggg	660
cnnaaaaaat	gncccttgaa	ntttttaaaa	aacctntgg	naaaancccc	nnnggttccc	720
ccnnnncccc	ttantttttn	acanaanggn	nnaaangggg	ncccnnaaaa	nacnttngg	780
ggcctttttt	tnacaaat	gggnttttn	aaagggtttt	tngggggggc	cctntatncc	840
ccnaaaaang	aaagggnnnc	ccccccnnn	nnnnnnnncc	chaancccc	ggnnttttn	900
ccnggggggg	cccnnaaaaa	gggggnaant	ttnggnnaaa	nccnnnnncc	gggggggncc	960
tnnaaanntc	nnttttnang	gggcccnnnn	nnccccnnnn	annggggggn	nnaaaaaccn	1020

<210> 44  
<211> 1024  
<212> DNA  
<213> Homo Sapien



<220>  
<221> misc\_feature  
<222> (1)...(1024)  
<223> n = A,T,C or G

<400> 44  
nnngnnnnnn nngattgggc cctctagatg catgctcgag cggccgcccag tgtgatggat 60  
atctgcagaa ttcgcccttt cgagcgcccg cccgggcagg tacgcggggc tcggcgctgc 120  
ctacggaggt ggcagccatc tccttctcgg catcatggcc gccctcagac cccttgtaga 180  
gccaagatc gtcaaaaaga gaaccaagaa gttcatccgg caccagtcag accgatatgt 240  
caaaattaag cgtaactggc ggaaaccag aggcattgac aacagggttc gtagaagatt 300  
caagggccag atcttgatgc ccaacattgg ttatggaagc aacaaaaaa acaaagcaca 360  
tgctgccag tggcttcgg aagttcctgg tcacaaacgt caaggagctg gaagtgtctg 420  
tgatgtgcaa caaatcttac tgtgccgaga tcgctcaca tggttcctcc aagaaccgca 480  
aagccatcgt ggaaagagct gcccaactgg ccatacagat caccaacccc aatgccaggc 540  
tgcgcatgta agaaaatgag taggcagctc atgtgcacgt tttctgttta aataaatgta 600  
aaaactgcaa aaaaaaann nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 660  
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn aannccnnnn aaaaannnnn nnnnaaaaaag 720  
gcttntttta angggcaaat tgggaaacct ttttnattca aaaatggctt ttncangga 780  
ctggggacca nnttncnng gggnccaaaa ttgggntttc ctttaanccc nttncnnaan 840  
gggaattttt ncccttgggc cttgaaaaac naagcnnnna aaaagncctt tgggnnggaa 900  
acccctttng ggggaatttc cncncnttg gggggcnnnt ntntnnnggg acccnanttg 960  
gncccaantt ttggggaaaa nnngggnaa aaagggnnc cctgggggaa aatgttnccc 1020  
ccca 1024

<210> 45  
<211> 1024  
<212> DNA  
<213> Homo Sapien

<220>  
<221> misc\_feature  
<222> (1)...(1024)  
<223> n = A,T,C or G

<400> 45  
ggagnnnntn aatcatacgc cagcttggtta ccgagctcgg atccctagta acggccgcca 60  
gtgtgctgga attcgccctt tcgagcgccg gcccgggcag gtacggcgca ttttgtgcac 120  
acaaaatgtg cgcacacaca cacacacaca cacacagaca ctctgcaca tggcctgtta 180  
aagaactaca agggaggtgg gacgcgggaa agtgatggt gtggggttgc atcgtctcat 240  
cattgattct tctcatattt ttctctgatt agagaaacta aagagaattt tgtgagaaag 300  
gcttgaaagt taatgagtta ttctaccaa agtgattaca agcagaaatc ctcatagct 360  
gtagagatgc tgacccacac atccttagct caaggagcc cctcgatta gtcaccttca 420  
gccatcagca gcctccacca ttaaccccag tgtgctgtat aaaaaatact ttctacatgt 480  
gcccaattt gaaaagttag gaagcactga tttcaaagca aatcattcac atttgaactg 540  
tcttcagtgt acctcgccg cgaccacgct aaggcggaat tctgcagata tccatcacac 600  
tgccggccgc tcgagcatgc atctagagg cccaattcgc cctatagtga gtcgtattac 660  
aattcacttg ccgtcggttt tacaacgtcg tgactgggaa aacctctgcg ttacccaact 720  
taatcgnct ggagcacatt cccnttttg ccnactggcg taattaacca aaaaggnccg 780  
gaccgaatcg gccntttcca acaagttggg ccaactgaa tnggcnaaan ggcccccccc 840  
tgtaaccggn gccattaaac ccccgncggg nnnntngggg taccoccaaac ggggaccggg 900  
taacttgcc anggcctaa ggcccggtcc ttttggttn ttnccttten ttttngccc 960  
nttntccngg nttttcccg aaagntntaa aaaggggggg tccccnttta ggggtcccaa 1020  
taaa 1024

<210> 46  
<211> 1024  
<212> DNA  
<213> Homo Sapien

<220>  
<221> misc\_feature

&lt;222&gt; (1)... (1024)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 46

nnngnnnnnn	nnnnnnngaa	ttgggccctc	tagatgcatg	ctcgagcggc	cgccagtgtg	60
atggatatct	gcagaattcg	cccttagcgt	ggtcgcggcc	gaggtacact	gaagacagtt	120
caaattgtgaa	tgatttgctt	tgaaatcagt	gcttcctaac	ttttcaaatt	tgggcacatg	180
tagaaagtat	tttttataca	gcacactggg	gttaatgggt	gaggtctgtg	atggctgaag	240
gtgactaatg	cgagggggctt	ccttgagcta	aggatgtgtg	ggtcagcatc	tctacagcat	300
ctgaggattt	ctgcttgtaa	tcactttggt	agaagtaact	cattaacttt	caagcctttc	360
tcacaaaatt	ctcttttagt	tctctaata	gagaaaaata	tgagaagaat	caatgatgag	420
acgatgcaaa	cccacacat	acactttccc	gcgtcccacc	tcccttgtag	ttctttaaca	480
ggccatgtgt	aggagtgtct	gtgtgtgtgt	gtgtgtgtgt	gtgcgcacat	tttgtgtgca	540
caaaatgctg	cgtacctgcc	cgggcggcgg	ctcgaaaggg	cgaattccag	cacactggcg	600
gncgttacta	agtggatccc	gagctcggt	ccaagcttgg	cgtaatcatg	gncatagctg	660
nttcctgtgt	gaaattggt	tccgtcaca	attccacaca	acatacgagc	ccggaagcch	720
taagtgtaaa	agccctgggg	tgccnatgat	gtgagctaac	tccattaaat	tgctgtgccc	780
ctcaactggc	ggtttcagtc	cggnaaanct	gcggncnact	gcantaatga	atcggncaac	840
gcccccgga	aaaaagcgt	tgcaattgg	gccctntttc	cctttcttgg	ttaatggact	900
ccntnngnct	tnggccnttc	ggnttngggn	naacgggatt	aanttnnntt	naaagggggg	960
naanacgggt	ttncnana	aatcnggggn	aaacccccng	gaaanaaaen	ttggncccaa	1020
nggc						1024

&lt;210&gt; 47

&lt;211&gt; 1024

&lt;212&gt; DNA

&lt;213&gt; Homo Sapien

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)... (1024)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 47

ggngnnnnnn	aaacgccagc	ttggtaccga	gctcggtacc	ctagtaacgg	ccgccagtgt	60
gctggaattc	gcccttagcg	tggtcgcgcc	cgagggtgat	ctgaacattg	ccaagcccta	120
ggacattccg	tagagcttgg	ggattctgga	ccaattgggt	cagacaggac	acgaaatgcc	180
tgtttgatgg	gttctgcaat	taaacaccca	actactctct	tttcatcaga	tataaaaaga	240
aaagtgttta	ttttgtttgg	acatttagga	acaacttgct	ggaagcccaa	ttcattatca	300
acaagtctct	ggacatcttc	tacctttttg	atagcaaagc	ttggatcatg	tggcagaacc	360
aacacgattt	tcccatccca	aaactctgct	actacacgtt	ctttcttcca	acccacatat	420
ttgattcctt	ccagaaacct	gtggtgatgc	tgtacctgcc	cgggcggcaa	gggcgaattc	480
tgcagatata	catcacactg	gcggccgctc	gagcatgcat	ctagagggcc	caattcgccc	540
tatagttagt	cgtattacaa	ttcactggcc	gtcgttttac	aacgtcgtga	ctgggaaaac	600
cctggccgtt	acccaactta	atcgcttgc	agcacatccc	cctttcgcca	gctggcgtaa	660
taagcgaaga	ggcccgcnacc	gatcgccctt	tccaacagtt	gccgcagcct	gaatggcgaa	720
tggacgcccc	ctgtanccgg	cgcattaaac	cgccggcggg	tnnttgggg	accccnacag	780
gggaccggta	cactttgnca	agggccctaa	cgcccggttc	cntttcgctt	tcttnccttt	840
cntttnttgg	ccacgttngn	ccgggttttc	ccgtnaagc	ttttaaaatn	gggggcttcc	900
cnttttaggg	gttcenaatt	aanggtttta	cgggaccctt	gaccccnaaa	aaactttnnn	960
tttnnggggg	gngggntnc	ccntaggggg	ccattgnccc	ttgnnaaaaa	anggtttttn	1020
nncc						1024

&lt;210&gt; 48

&lt;211&gt; 1017

&lt;212&gt; DNA

&lt;213&gt; Homo Sapien

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)... (1017)

&lt;223&gt; n = A,T,C or G

<400> 48  
gnnnnnnnga ntgggcccctc tagatgcatg ctcgagcggc cgccagtgtg atggatatct 60  
gcagaattcg cccttgccgc cggggcaggt acagcatcac cacaggtttc tggaagggaat 120  
caaataatgtg ggttggaaga aagaacgtgt agtagcagag ttttgggatg ggaaaatcgt 180  
gttggttctg ccacatgatc caagctttgc tatcaaaaag gtagaagatg tccaagaact 240  
tggtgataat gaattgggct tccagcaagt tgttcctaaa tgtccaaaca aaataaaaaac 300  
ttttcttttt atactctgatg aaaagagagt agttgggtgt ttaattgcag aaccatcaa 360  
acaggcattt cgtgtcctgt ctgaaccaat tgggtccagaa tccccaaagt ctacggaatg 420  
tcctagggtt tggcaatgtt cagatgcacc tcggccgcga ccacgctaag ggcgaattcc 480  
agcacactgg cggccggttac tagtggatcc gagctcggta ccaagcttgg cgtaatcatg 540  
gtcatagctg tttcctgtgt gaaattgtta tccgtcaca attccacaca acatacgagc 600  
ccggaagcat aaagtgtaaa gccctggggt gcctaattgag tgagctaact cacattaant 660  
gcgttgcgct cactggccgc tttccagtcn ggaaacctgt cgtgccagct gcattaatga 720  
atcggncaac gcgcggggga aaaagcgggt gcgtaattgg gcgctcttcc cgctttcttg 780  
nttacttgac tccttgggct tcggcgggtt ggntgcggnn aacggnatcc aacttactca 840  
aaaggcggna atacggtatt ccngnaatc nggggataac ccccggaan aactttgacc 900  
naaaggcccc caaaaggccc ngaacccgna aaaaagggcn cgnnnnnnnn gggtttcct 960  
aaggttcccg cccctggnn aggtttccca aaatngnnn ccttnnnnn nnnnnngg 1017

<210> 49  
<211> 1024  
<212> DNA  
<213> Homo Sapien  
  
<220>  
<221> misc\_feature  
<222> (1) ... (1024)  
<223> n = A,T,C or G

<400> 49  
ggngnnnnnn anathaaacg ccagcttggt accgagctcg gatccctagt aacggccgccc 60  
agtgtgctgg aattcgccct tgagctggcc gccggggcag gtactgaaat tactctgaat 120  
tcagaaatgt aagtatatgc agctaggtca taaagacact gctttagaga agacatgtat 180  
tagtggaatg gaacaggtaa catctttgag aagtcaatga gttctgcatg cagggtattc 240  
accatcgga tgatggcaag aatgatgcct gctgtgtgc ttctcagagg acgtataaag 300  
ccactgagga tgagtgtctac agtgcttgtg aattgtggg ccacagacat ttaagttggc 360  
attgcttttc tcctctctg cttaatccac ctttataaat atggcagatg gcttaagaca 420  
ggcatcatca gcatctctgg agatgtggg tcagagggca agtgggggcc gtgggggttt 480  
ccactagagg gaggaagtt tctgtttccc atgtgttagt tgtagttgtc tttgtgcttc 540  
accagaaaag aggtagagt cgcacctca cactaagagc ccgaaattgt gggtcagtag 600  
tttttttttt tnnntttttt tggtnntttt tnnnnnnnnn nnnntnnnn ngnnnnnnnt 660  
tnnnntnnnn ngnnnnnnnn nnnnnnnnnn ttnntnnng nnnncnctn nnnnnnaann 720  
nnngnnnnnn ncnnnnnnnn tngnnnnnnn nnnnncttn ngggnnnang nccnannnn 780  
nccnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnn nnnccnannn nnnnnntnn 840  
nnnaanncn tnnnnnnnnn nngggnnnnn nnnntnnan nnnnnnnnnn nngnnnaann 900  
nnnnnnnnnn nnnnnnnna annnnnnnnn nnnnnnnnn nnnnnnnnnn nnnnnnnnn 960  
nnnnnnnnnn nnnanngggn nnnnccnnn nnnnnnnnn nnnnnnnnn nnnnnnnnt 1020  
nngg 1024

<210> 50  
<211> 1024  
<212> DNA  
<213> Homo Sapien  
  
<220>  
<221> misc\_feature  
<222> (1) ... (1024)  
<223> n = A,T,C or G

<400> 50  
ggagnnnntn nntncngant gggccctcta gatgcatgct cgagcggccg ccagtgtgat 60

```

ggatatctgc agaattcgcc cttagcgtgg tcgcggccga ggtacactga cttgagacca 120
gttgaataaaa agtgcacacc ttataaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 180
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 240
aaaaanaana ntataaaaaa tttnaaggta aagntnncnn ntnaaaatct ttttagggna 300
tcnttatann nnttttcggn tntttnnngg ntngncctct nntnccnntt tttttnggna 360
ancccaann cccngnctta ccnnatgngn cananttaa anggtncntt nttnnngnga 420
nctcannncc cccgccnttt tnttnngggg ggnttnncca nngngnggna aatgcncngc 480
tnatnaanan gggnttnntc cnaaatnngn naanccctga ggnggnaanc ntnttggngt 540
tntnncngat tnnngnaccc ccncnngcag anntcnttgn nnccttantn ccgggggnta 600
nacccttcct ttaaaancnc nntgntntna aaaannnttt ncctgancna tcgggntaaa 660
ncnnnttttt tgaaaaccnn ggcttttttnn aanangctcc gntnggcnaa ctttggggaa 720
naagggnnttt ttttaaggcct tgcttttttag ggccanccta angngannnn ncngttgngt 780
tgnnngatgg ttttttaggg tttccgggtg ggaccttnt tggggggaaa ttttggngcn 840
aggggntccc cttnaagaaa tccnnnttcc nggnncnaa ttncnnaaa aattnnnggn 900
ccnaaanntt tnattgggaa ggncccttgg ttgccccnt aaanggnccn naaaccttta 960
aaangggggg gcntttaatg gncctttcn ggncccnaa aaanggggnc cccccnttt 1020
nagg 1024

```

```

<210> 51
<211> 1024
<212> DNA
<213> Homo Sapien

```

```

<220>
<221> misc_feature
<222> (1)...(1024)
<223> n = A,T,C or G

```

```

<400> 51
ngnnnnntt aactcccgt tggtaccgag ctccgatccc tagtaacggc cgccagtgtg 60
ctggaattcg cccttagcgt ggtcgcggcc gaggtacttt tttttcttt tctttcttt 120
ttttttttt ttttaatttt gagatggagt tttgctcttg ttgcccacgc tggagtgcaa 180
tggcgcaatc ttggctcatt gcaacctcca cctcccggat tcaagcgatc cttctgcctt 240
agcttcccaa gtagctggga ttatagacgt gtgccaccat tcccagctga tttttgtatt 300
tttagtagag atgggggttc accacgttgg ccaggctagt ctggaactcc cgacctcatg 360
tgatcctccc accgcagcct cccaaagtgc tgggattaca ggcgtgagcc accatacccg 420
gttgattgta gacttttgat tggatattac aaggacctat gagaggcaac aaagagaagt 480
tgtcaagaga acagaccctg agaccaatag tttggctcaa gctctggctc cctaacttcc 540
taccagtttg acctgggca agttacctaa catctttgtg cctccatttt ctatttgtaa 600
aaggaaacta atagtagtgc ctactttata atagagtat tacaatatatt aaatgagtta 660
atatttgtaa agtaattaga aaaatgcctg gcacttcaa agcagccttc atttattctt 720
tggaataaat tttaaatgaa ttcaagggtt atatgtagct tttaggcata tatnccataa 780
tggcactgta aaactgcana aatatccgat ctttaaaaaa ttttgggtaa atttatcata 840
atatggnaac caaatcccat ttaatggctt ttaggggtan ccgatnaaaa ccngaagttt 900
gcagtttaag ccncttatgg aangggaccc gaaattccaa ggancannnn gggaaaaaac 960
ccnngagga atnttgccg nttaantta aanccttgg gtnttttaag nncctaaaaa 1020
nttt 1024

```

```

<210> 52
<211> 1024
<212> DNA
<213> Homo Sapien

```

```

<220>
<221> misc_feature
<222> (1)...(1024)
<223> n = A,T,C or G

```

```

<400> 52
ngnnnnntt tnnngntcng antgggccct ctatagtcac gctcgagcgg ccgccagtgt 60
gatggatc tgcagaattc gcccttcgag cggccgcccg ggcaggctact tcaaaactat 120
tcataagcaa aaatcagtgt caaaaatatt tagtaactta aaaaaaaca aaagtataag 180

```

tagagacgga	caagaactcc	tcttgcttcc	tcccactggg	ctcatcgat	ttctgttcca	240
ttacataaga	gactaaaact	gacaaaactct	gttttatcgc	taacaccta	aagcaataaa	300
tgtgatttgt	taccatatta	tgataaaatt	taacaaaaaa	attttaaaga	tcggatatcc	360
tgcagtttac	agtgcatttt	atgtatatat	gcctaaaagc	tacataataa	ccttgaaattc	420
attttaaatt	atttccaaag	aataaatgaa	ggctgctttt	gaagtgccag	gcatttttct	480
aattacttta	caaataatta	ctcattttaat	atttgtaata	actctattat	aaagtaggca	540
ctactattag	tttcttttta	caaataaaaa	atggaggcac	aaagatgtta	ggtaacttgc	600
ccaaggtcaa	actggtagga	agttaggagg	ccagagcttg	agccaaacta	ttggtctcag	660
gggtctgttc	tcttgacaac	ttctctttgn	tgctctctcat	gggtccttgt	aaataccaat	720
caaaagtcta	caatcaaac	gggtatgggg	ctcacgcctg	taatcccagc	actttgggga	780
ggctgcggtg	gggaggatcc	ccatganggt	ncggagttcg	agactagcct	gggccaaactg	840
ggnggaaacc	ccatctntac	taaaaattcc	aaaatcanct	ggggaaggng	ggcacacgtc	900
tataatccca	cttccttggg	aagcttaagg	ncnnaaggac	gcttggaaac	ccggaanggn	960
gnggttcaat	ggancccaaa	atgngccatt	ggnctttcnc	gngggccaac	angagccaaa	1020
ntcc						1024

&lt;210&gt; 53

&lt;211&gt; 1024

&lt;212&gt; DNA

&lt;213&gt; Homo Sapien

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(1024)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 53

gggnnnnnnn	tnncttaacg	cccgnntggg	accgagctcg	gatccctagt	aacggccggc	60
agtgtgctgg	aattcgccct	tagcgtgggc	gcggccgagg	tacattactt	ggtgttaaca	120
ttgttggcag	tggtagcccc	ttttcagaaa	gcaacttgct	gtaagtcagg	gtgtccgttc	180
caaccttcag	ctagtgaata	ggtagtaaca	aatggtaaac	aagagaatga	ttgtttaaac	240
ctatctgtgg	acacttaaat	caactgttta	aaaatgataa	tcacgagtta	tgtagcaacg	300
tggaaatata	tttacagaac	attaagtggg	gaaagcagga	cacgaaagta	tatttatact	360
acagttataa	ctcaacagtt	catttatatg	ctgttcattt	aacagttcat	ttaaacagtt	420
cattataact	gtttaaaaat	atatatgctt	atagtcaaaa	gctgttgtgg	tggtgttgtt	480
gtaggcttat	agttgagcat	tattttctta	aattttctga	atgttcttta	tggtagtgtt	540
actaaaaagt	ttatgatcac	attttcattg	tgaacataat	ttgaactcat	tatcacacac	600
ttggaataaa	cagaaaagtg	gaggaaaaaa	aatcatatcc	ccaccatcca	aagacatata	660
ctctctcttt	atcttgntca	ttcttgggtc	tgngcacagg	tttatgatta	taactgngtc	720
aaaatgtata	ttcaaaatag	ctggtacatt	acctttgngg	nattatgggt	aaatctttca	780
cttttaatttt	ttcaaaagtc	cctatnataa	tggcccggtg	aaccgngggg	tttaaggggg	840
ctcccattgg	gggcataatn	cataccngga	ggaaaaattn	naaaattaag	gnaantattt	900
ttaaaaaatt	ncctatatatt	cccaaaacct	aacaactact	ggtaaaaaatn	ttggaccggn	960
tccccctatt	ntnggttaan	ggcccaccct	ttgggnaaaa	ccgggggtnaa	aaattggggc	1020
ctaa						1024

&lt;210&gt; 54

&lt;211&gt; 1024

&lt;212&gt; DNA

&lt;213&gt; Homo Sapien

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(1024)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 54

ggagnnnnnn	ttngtggg	gccctctaga	tgcattgctg	agcggccggc	agtgtgatgg	60
atatctgcag	aattcgccct	ttcgagcggc	cgcccgggca	ggtacttttt	tttttttttt	120
tttttttttt	ttacatttat	gcatacttat	cactaacacc	ctaataatca	cagactagtg	180
cacagatcaa	gatgttaaca	gttaattggt	gttggtgtgt	gggaatatgt	gtgaattttc	240
tttactgaat	ttccaaagtt	ttgtatgagt	atgtattata	tttgtaatgg	aaaatacata	300

```

cataaaatattt attacaaaaa caccaaaagat tatttaagga atttgagaca aaatatttaa 360
ccaaattccc acaatgacaa cactatttta gttattttcc acatcttttc atttaagact 420
ttatgcacac atatttaaca ctgtttacac aagcgtgtgc actgaaacaa gatagaggaa 480
acagatcaag atgttagcag tagttgttag gtgttgggaa tataggtaat tttttaaaat 540
aatttacttt attttctaatt ttttcctctg ggtatgtatt atgcacacca atggagacac 600
acataataca ctgtttatcag gacattatta taggggaacat ttgaaaaaat taaagtga 660
gtattttaacc ataattccac aaaggtaatg taacagctat tttgaatata cattttgaca 720
cagttataat cataaacctg tgcacagaaa cnagaatgaa cnngattaga ngagagtata 780
tgtcttttga tgggtgggat atgaattttt cctncacttt tctggatttt nccagtgtgn 840
gaaaaatgag ttccaaaata tgggtcncaat ggnaaatgng ancntnaacc ttttagtanc 900
ccttnccttn aggaacattt caggaaantt tannaaaata anggctcaac ttttaggcct 960
acannancaa ccccncaaaa ggnnttttgac tntttanccn tntatatattt taaccggttt 1020
taan 1024

```

```

<210> 55
<211> 1024
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1) ... (1024)
<223> n = A,T,C or G

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<400> 55
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tgctggaatt cgcccttagc ggccgcccgg gcagggtacct cacatgggaa acatgggaa 120
taaaaccacc tgaggagcct cttgatggtg agtcaggctg ttcctcgaa agtaggctgt 180
gactgccaaa cttttaggtt taaggagtat ttataatgat ctttgaggaa actgcaactg 240
acaattgagg gaaaaaaaatg ttagttcatg actgcaaaat acatgacaga atcacaaaaa 300
ctattttaca agtttaaaaa acaaacctga tgctgatgca tggcaggcga accccaaagt 360
ggggcttagc ctgcaagggt tcttggtctc acccaggaaa ggattcaagg gcaagccagt 420
ggtaagggtg aagaaaacac ctttatcaaa gcaacactgt tacagctcct gtggggtcac 480
agctcagtg ctgctcccag ggttgcccga taggcagggt gccgagagta gcagctgagc 540
ccagttttgc agtcatatgt atacctactt ttaattacat gcagattcag ggggtggttg 600
cgcagaaatt gttaggaaaa ggggtgtaac ttttgggtca tcagggtcatt gccgcttaaa 660
gtggtggtaa tgcctgagtt ttgcatggc aatggtaaac tgacaaggca cgctgcttgg 720
tgtgtcttac agaaagctgc ttncgctctg nccttggtta nctagccctc gancntttgg 780
ttgtaaaatga accaagagaa gtcaccggcc cttggcggtt tcttcccaga agtacccttg 840
ggccgggaan cagcgttaag ggccaaattc ttgcagatat ccatnacact tggcnggncc 900
gnttcancct tgcattttaa aagggcccaa tttgncctt taaanggagt cgantaccaa 960
ttnnnntggg ccgcgtttta acaacgtnnn ggacttgga aaaancctg ggttacccta 1020
antt 1024

```

```

<210> 56
<211> 1024
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1) ... (1024)
<223> n = A,T,C or G

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```

<400> 56
gnagnnnnnn ttngtttnc gantgggccc tctagatgca tgctcgagcg gccgccagtg 60
tgatggatat ctgcagaatt cgcccttagc gtggtcgcg cagaggtact tctgggagaa 120
aacgccaaag ccgtgactct cttgctcatt tacaacaaa agatcgaggg ctagctaaac 180
aaggacagag cggaagcagc tttctgtaag acacaccag cagcgtgcct tgctagttta 240
ccattgccat ggcaaaactc aggcattacc accactttca gcggcaatga cctgatgacc 300
caaaagttac cacccttttc ctaacaattt ctgcgcaaac caccctgaa tctgcatgta 360
attaaaagta ggtatacata tgactgcaaa actgggctca gctgctactc tcggcaccct 420

```

```

gcctatgggg caaccctggg agcagtcact gagctgtgac cccacaggag ctgtaacagt    480
gttgctttga taaagggtgt ttcttccacc ttaccactgg cttgcccttg aatcctttcc    540
tgggtgaagc caagaacctt tgcaggctaa gcccactttt ggggttcgcc tgccatgcat    600
cagcatcagg tttgnttttt aaacttgtaa aatagttttt gtgattctgt catgtatttt    660
gcagtcatga actaacattt ttttccctca attgcaagtt gcagtttctt tcaaagatca    720
ttataaatac tccntaacc cacaagttt ggcaagtcac agnctactct ttgaggaaaca    780
agcctgactt accatcaaga agcttccctn anggggntta cnttccatgg tttcccatgg    840
tgaaggancc tgncccgggc ggccgnttaa gggcgaaatt caacacactt gggnggccgn    900
tnnnntaang gatccnaact tggganccaa annnttgggg naaannatgg gnnnnnaact    960
ggnnnccggg ggggaaaatg gtatnccgnt tccaatttcc cncnannnt tnaancccg    1020
gaan                                         1024

```

&lt;210&gt; 57

&lt;211&gt; 1024

&lt;212&gt; DNA

&lt;213&gt; Homo Sapien

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(1024)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 57

```

gngnnnnntt nantnaacgc cagcttggtg ccgagctcgg atccctagta acggccgcca    60
gtgtgctgga attcgccctt agcgtgggtcg cggccgaggt actcatcact gacttgaagc    120
ttagtatctg gcttccttaa ggatgtaact ttcattgtaac agattaataa cttatatgaa    180
aaccaacaca accatattgt tagggctgga aagggccatg acgcctgggtc atttttcctg    240
ttttacctta ctcttatgtg tgtcacactt catcaattcc ggaaacagtt tctggagatc    300
tcctcattac ctcttttaca atcacctcac tccagcatgg tgtctgttac ctcttccac    360
ttgtgacaat gtctagtaag gtccactctc cattctgtgt gatgaccact tattacaacc    420
ctcagaatag gggacagtgg tgtgccccct gcaatacaat ggtttctatc tcctgatact    480
tttattacac ctctagcagg atgtcttgtg atcctcctta ttgatttttc cctcacgatg    540
atgaacaatt atctcccgtt actcacctag cagtatctaa ctgtccctaa cacagcatg    600
gggaatgccc tcaatacggg ggatgctgnt aactttcttc ctccccctca ggcaatggcg    660
gtgacttaca atgaaccata atggccacat tccccactg nattttggaa cctcttctgn    720
ccccctcttt ctagganccc agttaaaaa aaaaaaccaa aactagcccc aatgncgtgtg    780
atgccattac atcacttacc cagggtgan cctncatta aanttttgat gggatctctt    840
tggnttccca attggccgtt naacccaagn ctgntggatt cccaanttnc cccattgntt    900
taatgcgggt cccttaanca ncccttgnt actggacctg gccngggngg gcccttttaa    960
aaagggcaaa ttntggagaa aatnccttnc acttgggggg cntttnnaac atggcntttt    1020
aang                                         1024

```

&lt;210&gt; 58

&lt;211&gt; 1024

&lt;212&gt; DNA

&lt;213&gt; Homo Sapien

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(1024)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 58

```

gngnnnnntt nngtttgccc ctctagatgc atgctcgagc ggccgcccagt gtgatggata    60
tctgcagaat tcgccctttc gagcgccgag cggggcaggt acagtagcca agggtgacta    120
aggaaccgca tgaagcaatg tgggaaattg ggaatcagca gacattgggt taacgggaca    180
atggggagcc aagagatacc atcaaaattt aatggagggg tcagacactg tgttagtgat    240
taatgggcat caacagacat tgggctagtt tttgtttttt ttttttaact ggggtcctag    300
aaagaagggg acagaagagg ttccaaaata cagttgggaa atgtggacat tatggttcat    360
tgtaagtac cgccattgcc tgaggggaag gaagaaagt aacagcatcc accgtattga    420
gggcattccc acatgctgtg ttagggacag ttagatactg ctaggtagat aacgggagat    480
aattgttcat catcgtgagg gaaaaatcaa taaggaggat cacaagacat cctgctagag    540

```

gtgtaataaaa	agtatcagga	gatagaaacc	attgtattgc	agggggcaca	ccactgtccc	600
ctattctgag	gggttgaata	agtggtcac	acacagaatg	gagagtggac	cttactagac	660
attgtcacaa	gtgggaagag	gtaacagaca	ccatgctgga	ntgaggtgat	tgtaaaagag	720
gtaatgaaga	gatcttccag	aaactgttgc	cggaattgat	gantgtgacc	cnccttaaga	780
ntaaggtaaa	acaggaaaaa	tggncaggc	gtnatnggcc	cttttcagnc	cttaaccttt	840
attggtgggg	tggtttcata	taagttant	aatctggtn	cctgaaagtt	tccttccttt	900
anggaaaccc	gantcctaan	cctttnaagt	ccnnggatga	gacccttgg	ccgggaaccc	960
cccttaaggg	cgaaattccn	nccacttgg	gngggccnt	nncttaaggg	acccaacttg	1020
ggcc						1024

&lt;210&gt; 59

&lt;211&gt; 1024

&lt;212&gt; DNA

&lt;213&gt; Homo Sapien

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(1024)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 59

gagnnnnnt	taactccgc	ttggtaccga	gctcgatcc	ctagtaacgg	ccgccagtgt	60
gctggaattc	gcccttagcg	tggtcgccgc	cgaggtaacct	ggttttcttt	caactcttca	120
atttcccatc	ttccatcgta	tattgaaatt	tctcctccca	tgcatctttt	ctttgctttt	180
gataagaccc	atccagccaa	ccttccacta	tcaaaagttt	ctgcaaaata	tacttctcct	240
ataggttgag	gtgtcttata	tttaattctt	gaggaaagtt	cactttcatt	aacatcaatt	300
tcttctgaat	tttcttcaaa	gtcttccgtc	tcaacatcat	catccataaa	ttctgcatta	360
attgagatga	acagaagacc	caaacataac	caaaaggctt	ggaaatgcat	attgattatc	420
tctcttgccg	cctgttttcg	gcagtgcag	ctcagatgtc	caagtcggtg	ccacttggtc	480
cccgcgtctc	ttcagaccag	tccccccgc	gtacctgcc	gggcggccgc	tcgaaagggc	540
gaattctgca	gatatccatc	acactggcgg	ccgctcgagc	atgcacttag	agggcccaat	600
tcgcctcata	gtgagtcgta	ttacaattca	ctggccgtcg	ttttacaacg	tcgtgactgg	660
gaaaaccctg	gcgttaccca	acttaatcgc	cttgcagcac	atcccccttt	cgccagctgg	720
cgtaataacg	aaaagccgc	accgatcgcc	ctttccacag	ttgcccagct	gaatggcgaa	780
atggaccccn	ccctgtancg	gcgcattaan	ccnccngcng	gttnntgggg	tacccccaac	840
ggggaccggg	acactttgnc	aagggcctaa	cgncgggttc	ntttggtttc	ttncctttcn	900
ttnttngcac	gttngnccgg	nttttcccg	naagctttaa	aatngggggc	ttcccccttt	960
angggtcen	aataaagggt	ttacggganc	ttgaaccccc	aaaaaacctt	gnnttnaggg	1020
ggga						1024

&lt;210&gt; 60

&lt;211&gt; 1024

&lt;212&gt; DNA

&lt;213&gt; Homo Sapien

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(1024)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 60

gnnnnnnntn	ngttncngaa	ttgggccctc	tagatgcatg	ctcgagccgc	cgccagtgtg	60
atggatatct	gcagaattcg	ccctttcgag	cggccgcccg	ggcaggtagc	cgggggggac	120
tggtctgaag	agacgcgggg	accaagtggc	aacgacttgg	acatctgagc	tgctactgcc	180
gaaaacaggc	cgcaagagag	ataatcaata	tgcatttcca	agccttttgg	ttatggttgg	240
gtcttctgtt	catctcaatt	aatgcagaat	ttatggatga	tgatgttgag	acggaagact	300
ttgaagaaaa	ttcagaagaa	attgatgtta	atgaaagtga	actttcctca	gagattaaat	360
ataagacacc	tcaacctata	ggagaagtat	attttgcaga	aacttttgat	agtggaaagt	420
tggtctggat	ggctttatca	aaagcaaaga	aagatgacat	ggatgaggaa	atttcaatat	480
acgatggaag	atgggaaatt	gaagagttag	aagaaaacca	ggtacctcgg	ccgcgaccac	540
gctaagggcg	aattccagca	cactggcggc	cgttactagt	ggatccgagc	tcggtaccaa	600
gcttggcgta	atcatgggtca	tagctgtttc	ctgtgtgaaa	ttgttatccg	ctcacaattc	660



cacacaacat	acgagccccg	aagcataaag	tgtaaagccc	tgggggtgcct	aatgagtga	720
ctaactcaca	ttaaattgct	tgcgtcact	ggccgcttct	cagtcnggaa	accctgtcgt	780
gccagctgca	ttaatgaatc	ggccaacgcc	ccgggggaaa	aagcggnttg	cgtattgggc	840
gctcttccct	ttcttgntta	cttgactcgc	ttgggcttcg	tcgttcggct	gcggcnaacg	900
gnatcagctt	actcaaangc	gggaaatacg	gtantcccca	gaatccnggg	gattaccccn	960
ggaaaagaac	ctgtgagccn	aangggcccc	aaangggccn	gaaccntaaa	aaangggccc	1020
tnnn						1024

&lt;210&gt; 61

&lt;211&gt; 1024

&lt;212&gt; DNA

&lt;213&gt; Homo Sapien

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(1024)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 61

gggnnnnnnt	tncttacacg	cccgtttggt	accgagctcg	gateccctagt	aacggccgcc	60
agtgtgctgg	aattcgccct	ttcgagcggc	cgccccggca	ggtacaaatg	gttttatgtc	120
accaattttg	ctgcaagaat	gggaactgct	tttaaatctg	taaatagctc	ttaacatttg	180
ttgtatgcac	tcttttctta	ctatggctgt	caacacttgt	gtagggttta	atttctaaat	240
tggtggcatg	ttctttttct	caggctattc	agaagtaaca	acatttttca	tttcagacat	300
gcaatcacct	attaatgatg	aaatatttta	ccactttggg	aatattttaat	tagtttagtc	360
atggagaata	cttcccacat	tttaagattt	ttcaaataatc	actgtcattt	ctatttttagc	420
attttatcaa	attattgctt	ttttatttta	taataaggct	taagacagat	tatagacctc	480
cttaagagat	gagtttcttc	ttctaaaaat	gcatgttgat	agaggactat	ttaggctaata	540
cggaggaatc	attaagaaag	aaagttttaa	cactgtttat	ccctatctgc	tttcttgca	600
ctttttctgt	gaaaaatatt	ttctgtttgc	aaaatcttcc	ctgagttctg	aacccagcac	660
catcagtacc	tcggccgcga	ccacgctaag	ggcgaattct	gcagatatcc	atcacactgg	720
cggccgctcg	agcatgcac	tagaggggccc	aattcgccct	atagtgaagc	gtattacaat	780
tcaactggccc	gcgnttttac	aacgtcgtga	ctgggaaaac	ccctgcgtta	cccaacttaa	840
acgcccttgc	agcacatccc	ccttttgncc	aantgcgtaa	ttacaaaaaa	ggcccgcnacc	900
gaacggccent	ttcccaaaag	tggcncaacc	ctgaaatggc	aaatgggccc	cccccttgaa	960
ccgnggcct	taancccccc	nccgggnntt	tnggggtccc	cccacggnga	nccgttaaac	1020
ttgc						1024

&lt;210&gt; 62

&lt;211&gt; 1024

&lt;212&gt; DNA

&lt;213&gt; Homo Sapien

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(1024)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 62

gnagnnnnnn	ttngnttg	gcccctctaga	tgcattgctg	agcggccgcc	agtgtgatgg	60
atatctgcag	aattcgccct	tagcgtgggc	gcggccgagg	tactgatggg	gctgggttca	120
gaactcaggg	aagattttgc	aaacagaaaa	tatttttccac	agaaaaagtg	caaggaaagc	180
agatagggat	aaacagtgtt	aaaactttct	ttcttaatga	ttcctccgat	tagcctaaat	240
agtcctctat	caacatgcat	ttttagaaga	agaaactcat	ctcttaagga	ggtctataat	300
ctgtctttaag	ccttattata	aaataaaaaa	gcaataattt	gataaaatgc	taaaatagaa	360
atgacagtga	tatttgaaaa	atcttaaaat	gtgggaagta	ttctccatga	ctaaactaat	420
taaatattcc	caaagtggta	aaatatttca	tcattaatag	gtgattgcat	gtctgaaatg	480
aaaaatggtg	ttacttctga	atagcctgag	aaaaagaaca	tgccaacaat	ttagaaatta	540
aacctacac	aagtgttgac	agccatagta	agaaaagagt	gcatacaaca	aatgttaaga	600
gctatttaca	gattttaaag	cagttcccat	tcttgacgca	aaattgggtga	cataaaacca	660
tttgtacctg	ccccggggcg	ccgctcgaaa	gggcgaattc	cagcacactg	gccgnccggt	720
acttagtgga	tccgagctcg	gtccaagcct	tgcgtaaatc	atggnccata	ntggttccctg	780

```

nggtgaaatt ggtatccccg tcacaatttc nccccancat acgaanccgg aagccntnaa      840
gngtaaaaanc cctgggtggc ctaatgagtg aactaactca catttaaattg cgtgcgctta      900
ctggcccggtt ttccaatcng ggaaanctgt cnggccact ggntttaang aatcgccan      960
gccccnnggg gaaaaaagng gttgcnnatt gggccctttt tcggttcctt ggttantgga      1020
atcn                                     1024

```

```

<210> 63
<211> 1024
<212> DNA
<213> Homo Sapien

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<220>
<221> misc_feature
<222> (1)...(1024)
<223> n = A,T,C or G

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```

<400> 63
gagnnnnnnt taacnccccg ttggtaccga gctcggatcc ctagtaacgg ccgccagtgt      60
gctggaattc gcccttagcg tggtcgcggc cgaggtacat tgacttcatt actaaagaac      120
aaaaatgttc atttttggtc cagtaaatgg agactgcttg tacttttttt tttttttttt      180
tttttttttt ttattaaaaa actgagtttt atttcacatg tatatttttg tctccccacc      240
atttccatgt ctgaccaccg ctactactat gtccatcat aacattccat acatacttaa      300
aaccaagcaa aggggtggagt tccatcttta aaaactaaac ggcatttttg acaacacatt      360
cttgggaata naacctggac aacatttatc aaacacggta gggaaagtgc tcactctgca      420
ttataaaaag gacagccaga tatcaactgt tacagaaatg aaataagacg gaaaattttt      480
taacaaattg tttaactat tttcttaaag agacttcctc cattgccaga natcttgaat      540
agcctcttgg tcagtcatcc ggaagcaatt ctacacataa ttgatgaatt tggcttccac      600
tttgggaaga gaaccacctt tttctatact tgcttgcat tttgctttaa tgncttctac      660
agaactagggt ccttttgngg ttttaggagt ttttctctgn ttcttgaagg attcttggcc      720
ttttganctt ggggttgaaa ganggnnttg agtcttttca ttctgaattg acttttgggc      780
atttttggct ggagnatctc ggatagattt ctctactggg gctttttctt nagntttcct      840
catatcaaaa tcntcatcat catcancctt atnaanaatc cctttaatna anacgggnat      900
tnatntttat tnagcngcaa ggtttacttt ttttctgggg gaanctttgt tanccctttt      960
caggggggcaa aaccgggttt ccaaaaatnc ccttaanaat ttnccaaanc cncncnctt      1020
ttaa                                     1024

```

```

<210> 64
<211> 1024
<212> DNA
<213> Homo Sapien

```

```

<220>
<221> misc_feature
<222> (1)...(1024)
<223> n = A,T,C or G

```

```

<400> 64
ggagnnnnnn ttnggtttcc gaattggggc ctctagatgc atgctcgagc ggccgccagt      60
gtgatggata tctgcagaat tcgcccttag cggccgcccg ggcaggtaca gccaacggtt      120
tcccttgggg gctttgaaat aacaccacca gtgggtctta ggttgaagtg tggttcaggg      180
ccagtgcata ttagtggaca gcacttagta gctgtggagg aagatgcaga gtcagaagat      240
gaagaggagg aggatgtgaa actcttaagt atatctggaa agcggctctg ccctggagggt      300
ggtagcaagg ttccacagaa aaaagtaaaa ctgtgtgctg atgaagatga tgacgatgat      360
gatgaagagg atgatgatga agatgatgat gatgatgatt ttgatgatga ggaagctgaa      420
gaaaaagcgc cagtgaagaa atctatacga gatactccag ccaaaaatgc acaaaagtca      480
aatcagaatg gaaaagactc aaaaccatca tcaacaccaa gatcaaaagg acaagaatcc      540
ttcaagaaac aggaaaaaac tcctaaaaaca ccaaaaggac ctagttctgt agaagacatt      600
aaagcaaaaa tgcaagcaag tatagaaaaa ggtggttctc ttcccaaagt ggaagccaaa      660
ttcatcaatt atgtgaagaa ttgcttcggg atgactgacc aagaggctat tcaagatctc      720
tggcaatggg agaagtctct ttaagaaaat agtttaaacc atttggtaaa aaattttccg      780
tcttatttca tttctgtacc agttgatatc ctgctgtcct ttttataatg cnaagtggag      840
aactttccct accgggttgg ataaaatgtt gncaggttct attgcccaag aatgtgtgnc      900

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ccaaaaatgcc cgntagtttt tnaagatgga acctcaccn tttgcttggn tttaagtatg 960  
nntngaangt ntgatnggac cntatnntna ccngngncaa ccttggnaaa tgggtgggag 1020  
acaa 1024

<210> 65

<211> 1024

<212> DNA

<213> Homo Sapien

<220>

<221> misc\_feature

<222> (1)...(1024)

<223> n = A,T,C or G

<400> 65

gggnnnnnnt aactnnacgc ccgcttggtg ccgagctcgg atccctagta acggccgcca 60  
gtgtgctgga attcgccctt agcgtggtcg cggccgaggt actctgctga tctctgcctt 120  
gtaatggaaa tgtttcattc attaatgtta ttgatatggt tgcactatgt ccgtaatttt 180  
gctttttgtg tatctgtcta atgtttttta ttctctttt tctcttttac tattttcttt 240  
taaatgaagt aaatagttcc taacgtagta ttttattttc ttaaaataaa tcaaaactcac 300  
ttataaaaata ttttcatat tactttctta tcgattgctg tatgccttac aacatacatc 360  
ttatcagact caacatttat agtaacataa atccattgag acatagtaac attaatctct 420  
tatagggtcta tttattctac ttattcaata attgttatat atataattaca tctacatggt 480  
acaaacacaa aaatatattg ttataatgct tgtttttatg taattttatg tcttttaaag 540  
aacatgagag aagaaaaggaa agcaaaagtaa ctattagcat tgttatgtta acattattct 600  
ttacaatttc tggttctctt catttttttc ctgttgattc aagttgtatc ttagtgtcat 660  
ttcatttctt taatacaact ttgctccaat tatttctttt gtgctcttaa tgtcaaatat 720  
attaagtttt gnttgcatga taggctcaac actattatac atataattggt ttatgcattt 780  
attttgaatt aagagaaaaa aaaaatatgc aatttaattg cttatatact attcatataa 840  
ttaccctcta tgagggtnc a ttatatatgn attccaacn tatttataaa ntccaaanta 900  
cctgggtangt gccnaaaggc tctaagcct attagcccg aaaaaaatc cctgggtant 960  
tccttggnaa gggaggtttg attgccacca acctntttta natnggggtg gggtttaata 1020  
aacc 1024

<210> 66

<211> 1024

<212> DNA

<213> Homo Sapien

<220>

<221> misc\_feature

<222> (1)...(1024)

<223> n = A,T,C or G

<400> 66

ggagnnnnnn ttngntnng gccctctaga tgcattgctg agcggccgccc agtgtgatgg 60  
atatctgcag aattcgccct ttcgagcggc cgcccgggca ggtactccag cctgggtaac 120  
agaggagagac tctatgccaa acaacaaac aaacaaacaa acaacaatg gagaccagaa 180  
agcaatgaga tgaaatgttc aaagtgtgta aagaaaaaaa aaggtcaacc aaaagtctta 240  
tatccagaat atttttcaaa gtataaaaagc aaaatacatt ctgagataat aaaaacaaaa 300  
caaaactaaaa gagtttgggt ctatcatacc tacccttaca gaaatactca gtgatttttt 360  
tcaggctaatt aggctaggag catttggcac ctaacagtaa tttgaattta tatatatggt 420  
tgtatacata tatatggaac actcatagag gtaattatat gaattagttat ataagacatt 480  
aaattgcata tttttatttt ctcttaattc aaaataaatg cataaaacaa tatatgtata 540  
atagtgttga gctataatg caaacaaaac taatatattt gacattaaga gcacaaaaga 600  
aataattgga gcaaagtgtt attaaagaaa tgaatgaça ctaagataca acttgaatca 660  
acaggaaaaaa aatgaagaga accagaaatt gtaaaagaata atgntaacat aacaatgcta 720  
atagtactt tgccttcctt tcttctctca tgncttttaa aagacataaa attacataaa 780  
aaccaagcat tataacaata taattttggg tttggaacat ggtagatgta tatatatata 840  
ccattattgg ataagtagaa taaataggac tattaaggaa ataatggtag tatggctcaa 900  
tgggantaag gtacctataa nggtgagcct gganaggaag natgttgnaa ggcttcgggc 960  
aatcggttta gaaagtantt tggaaatata ttttnatnaa gnggggttga ttaatttagg 1020

aaaa

1024

<210> 67  
<211> 1024  
<212> DNA  
<213> Homo Sapien  
  
<220>  
<221> misc\_feature  
<222> (1)...(1024)  
<223> n = A,T,C or G

<400> 67  
gagnnnnnnnt taactccagc ttggtaccga gctcggatcc ctagtaacgg ccgccagtgt 60  
gctggaattc gccctttcga gcggccgccc gggcagggtac tttttttttt tttttttttt 120  
ttttggaaaa tgagattttt gactttaaca aaacaaatac agattgaatt taccaaatat 180  
tgataattca tgtanaacgg gtgccacaga ttttaaagta tcaaaaccaa gagggcatca 240  
caaaataaac ttgtgtgaaa aatatcttca tcaaagaaga aaatatgaga agagtagtcc 300  
ttatgcagtg aggagaaata tatttggtaa agtaaataat ggtagtagat actgaatcta 360  
tagatagcat atattccaaa tgttttttag ggaatatcaa atcagatgat gcttanatgt 420  
tatagtaata tcacttatct catttggaat gaaatttaat gttttttaat aaatagcaaa 480  
ttttcatttt ttactacact ttataaaaaca aattaaatat ttagagtata actgatcata 540  
actaacatca ccttgcatct actaataaat actctaaata catttggttt attattggaa 600  
tttatacctt tataatttta cctgttagaa attagtgacc ttgtggcatt atgtttaaag 660  
tttacatttt ccagtgatg tgaacagtat ttatacntaa aatggatata tgnccaatga 720  
atagtaacca tgtttggtgg tttaaaaacc gnacatggtt tagtttgaca ttggcatgtc 780  
tcttcagaaa ttnaaaaggt atcntttaag ggatggcctt tnggaaatca ttaataaaact 840  
accntctggg aaaangaatn ccaatttcaa gaagctacat aantagaact cagaccccn 900  
gggcagggtt ttgggnanaaa angctttcaa ttncaaattt nttntccggn gnaaacgaa 960  
ngggaccctt annngnntgg accnccttcc cngnaaactg gttttaaaat aaaaatttcc 1020  
gnnc 1024

<210> 68  
<211> 1024  
<212> DNA  
<213> Homo Sapien  
  
<220>  
<221> misc\_feature  
<222> (1)...(1024)  
<223> n = A,T,C or G

<400> 68  
gnngnnnnnn ntntnttcga attgggcctt ctagatgcat gctcgagcgg ccgccagtgt 60  
gatggatata tgcagaattc gcccttagcg tgggtcgggc cgaggtagct agtagatcta 120  
ctgagattaa acgggacctg tttggagcag aaccttttga cccatttaac tgtggagcag 180  
cagatttccc tccagatatt caatcaaaat tagatgagat acaggagggg ttcaaaatgg 240  
gactaactct tgaaggcaca gtattttgtc tcgacccgtt agacagtagg tgcagacatc 300  
aagaacaaga aatcctgatt catgttaaat gtgtttgtat acacatgtca tttattatta 360  
ttactttaag ataggatata ttcatgtgtc aatgttttta aatattttta tattttgaaa 420  
attttctcag ttaaaatttc tcaccttcac tattgatctg taatttttat tttaaaaaca 480  
gcttactgta aagtagatca tacttttatg ttcccttctg tttctactgt agatgaattt 540  
gtaattgaaa gacatattat acaaatacct gccttgtgtc tgagtcttat ttagtttagca 600  
tcttgaaatt tgtattcatt ttccagatgg ctagtattat aatgatttcc caaaagccat 660  
accttaaaaga taacttttta aattctgaag agacatgcca atggcaaaact aaacatggct 720  
tggttttaaa ccaaccaaca gttaactatt cattgggaca gatatacatt tatggataaa 780  
tctggtcaca tactggggaa atggaaactt taaacataat ggccccangg cactaatttc 840  
ttaccggtaa aaatnttang ggtttaaant nccatattna acccnatggt tttaaaggat 900  
ttattntaaa ngcnngggga ngtaantttg acagntntcn ctaaaanttt aaatgggttn 960  
ttaaaggtnn gaaaaaanga aaaattgctt ttttttnaaa acctttaant cntttccnag 1020  
gggn 1024

<210> 69  
 <211> 1024  
 <212> DNA  
 <213> Homo Sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(1024)  
 <223> n = A,T,C or G

<400> 69  
 gggnnnnnnnn tnncttanac gccnnngett gtaccgagct cggatcccta gtaacggccg 60  
 ccagtggtgct ggaattcgcc ctttcgagcg gccgcccggg caggtactcc ggtcgggtgct 120  
 agcagcacgt ggcattgaac attgcaatgt ggagcccaaa ccacagaaaa tggggtgaaa 180  
 ttggccaaact ttctattaac ttatgttggc aattttgcc ccaacagtaa gctggccctt 240  
 ctaataaaaag aaaattgaaa ggttttctcac taaacggaat taagttagtg agtcaagaga 300  
 ctcccaggcc tcagcgatcc tcggccgcga ccacgctaag ggcgaattct gcagatatcc 360  
 atcacactgg cggccgctcg agcatgcac tagagggccc aattcgccct atagttagtc 420  
 gtattacaat tcactggccg tcgttttaca acgtcgtgac tgggaaaacc ctggcggttac 480  
 ccaacttaat cgccttgca cacaaccccc ttccgccagc tggcgtaata gcgaagaggc 540  
 ccgcaccgat cgcctttccc aacagttgag cagcctgaat ggcgaatgga cgcgcctgt 600  
 agcggcgcat taagcgcggc ggggtgtggt gtacgcgca gcngtgaccg ctacacttgc 660  
 cagcgccta cgcgcgtcct ttccgtttct tcccttccct tctcgccacg ttcgcgggct 720  
 ttccccgtca agctctaaat cgggggctcc cttttagggt tccgaattan tgctttacgg 780  
 accttgacc caaaaaactt gantanggtg atgggtcacg taatgggccc atnggccttg 840  
 anaagacgg ttctcgccct ttgacngtt gagtccacgt tctttaaaag gggactcttg 900  
 gttccaaact ggaacaacn nttaancctt atttngggct aatcctttg aattaatnag 960  
 ggattttgcc caatttgggc ccttnggta aaaaaaggg cttgntttta ccaaaaattt 1020  
 aacc 1024

<210> 70  
 <211> 1024  
 <212> DNA  
 <213> Homo Sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(1024)  
 <223> n = A,T,C or G

<400> 70  
 ggagnnnnnn ttnngtttgg gccctctaga tgcattgctc agcggccgccc agtggtgatgg 60  
 atatctgcag aattcgccct tagcgtggtc gcggccgagg tacgtgagg cctgggagtc 120  
 tcttgactcc actacttaat tccgtttagt gagaaacct tcaattttct tttattagaa 180  
 gggccagctt actggttggtg gcaaaattgc caacataagt taatagaaaag ttggccaatt 240  
 tcaccccatt ttctgtggtt tgggctccac attgcaatgt tcaatgccac gtgctgctga 300  
 caccgaccgg agtacctgcc cgggcccggc ctcgaaaagg cgaattccag cacactggcg 360  
 gccgttacta gtggatccga gctcgttacc aagcttgccg taatcatggt catagctgtt 420  
 tcctgtgtga aattgtttat cgtcaccaat tccacacaa atacgagccg gaagcataaa 480  
 gtgtaaaagg tggggtgcct aatgagtgag ctaactcaca ttaattgctg tgcgtcact 540  
 gcccgccttc cagtcgggaa acctgtcgtg ccagctgcat taatgaatcg gccaacgcgc 600  
 ggggagaggc ggtttgcgta ttgggcgctc ttccgcttcc tgcgtcactg actcgtgctg 660  
 ctccgtcgtt cggctgcggc gagcgggtatc aagctcactc aaaggcggta atacngttat 720  
 ccacagaatc aaggggatac gcaggaaaga acatgtgaac caaaaggcca caaaaggcca 780  
 ggaaccgcta aaaaaggccg cgttggttgg cgttttttcc atangcttcc ggcccccttg 840  
 acgagcatta ccaaaaatcg acgtcaagt tcaaagggtg cgaaancccg accggactnt 900  
 taagaaatcc agcgttttcc cctggaactt ccttgggcgc tttctggtt ccaaccttgc 960  
 cgttaccgga tacctggncc gcntttttcc ctttngggaa accnngggc tntcaaaant 1020  
 taac 1024

<210> 71  
 <211> 1024

<212> DNA  
<213> Homo Sapien

<220>  
<221> misc\_feature  
<222> (1) ... (1024)  
<223> n = A,T,C or G

<400> 71  
gagnnnnnt taactcccgc ttggtaccga gctcggatcc ctagtaacgg ccgccagtgt 60  
gctggaattc gcccttagcg tggctcgggc cgaggtaact ttttttttc tttttttaca 120  
tctgatttta atgcttcgtt aacttcaaaa ggaactggta gaggttcagaa ggtgagctgt 180  
tggtttttcta aacctcttcc caggaagggg acattgacac ttgaattttt gtcacctttt 240  
tcctcattag aaggaaagta gaaagcctta ctgtaggatt tttaaaaaaa aatccatctc 300  
accccatatt ggtcttaaat aagtagagac taattaacct aagctacctt taacaacgta 360  
gaatttagat ggggttcatat atgtgagaaa aacctgaata taggacaggg gtcctacttt 420  
tttccccacc tctgtcgccc aggttagagt atagtgggtg gatcttggcc cactgcaacc 480  
tctgcttctc aggttcaagt gattctcctg cctcagcctc ccaagtagct gggattgtaa 540  
gagtatgcca ccacgcccag ctactttttg tatttttagt agagacaggg tttcatcatg 600  
ttggccagga tgggtctctta actcctgccc tcaagtgatc caccagagag gagatcctcg 660  
gcctcccaaa gtgctgggat tataggcatg agccaccgtg ccagacctac tttctaatta 720  
attaaaaaaa aaaaaaaaaa ttcccaaagt agctgataaa aaactgacgt gaggtgtgct 780  
tgcttccaat aatacctagt ttccagctgt tccaaactcg ttccaaattg gaaattanct 840  
ggaacnccac tacagtaatc ttcanggaan gggaaaatta ggccctaaaa gaatccccag 900  
aaagttcanc atnggnancc tgnccnggcc ggnccgttca aaangggcna aatttgagaa 960  
aattccatna cacttgggcg gccgttcgan catggctttt aangggccca attgnccctt 1020  
aaag 1024

<210> 72  
<211> 1024  
<212> DNA  
<213> Homo Sapien

<220>  
<221> misc\_feature  
<222> (1) ... (1024)  
<223> n = A,T,C or G

<400> 72  
gnagnnnnn ttnnttccg aattggggccc tctagatgca tgctcgagcg gccgccagt 60  
tgatggatat ctgcagaatt cgccctttcg agcgggccgc cgggcaggta ccatgctgac 120  
ttcttggtat cttttaagge ctaattttcc ctcccttgag attactgtag tgtgttccag 180  
ctaatttcta tttgaaaacg agttggaaca gctgaaaact aggtattatt gaaggcaaa 240  
cagcctcacg tcagtttttt atcagctcat ttgggaagtt ttttttttt ttttaattaa 300  
ttagaaagta ggctgggcac ggtggctcat gcctataatc ccagcacttg gggaggccga 360  
ggatctcttc tctgggtgat cacttgaggg caggagttaa gagaccatcc tggccaacat 420  
gatgaaaccc tgtctctact aaaaatacaa aaagtagctg ggcgtggttg catactctta 480  
caatcccagc tacttgggag gctgaggcag gagaatcact tgaacctagg aagcagaggt 540  
tgcagtgggc caagatcaca ccactatact ctgacctggg cgacagaggt ggggaaaaaa 600  
gtaggacccc tgtcctatat tcagggtttt ctcacatata tgaaccatc taaattctac 660  
gttggttaaag gttagcttagg ttaattaagt ctatacttat ttaagaccaa tatggggtga 720  
naatggattt ttttttaaaa atcctacagt aaggctttct actttccttc taatgaggaa 780  
aaaggtgacc aaaantcaag tggcaatggc ccctttcttg ggaaaagt t anaaaaacca 840  
ccggttanct tntggaactt ttacccagtt cccttttgaa gttaccgaag cctttaaaaan 900  
cagatgttaa aaaaggaaan nnnaaaaagt ncctttggcc gggaaaccnc ttaaggggcca 960  
aattccacac acttgggggg ccgntnccnt anggatccca ncttgggncc aaannttggg 1020  
gnaa 1024

<210> 73  
<211> 1024  
<212> DNA  
<213> Homo Sapien

<220>  
<221> misc\_feature  
<222> (1)...(1024)  
<223> n = A,T,C or G

<400> 73  
gagnnnnnnnt tnaacttacac gccngettg taccgagctc ggatccctag taacggccgc 60  
cagtgtgctg gaattcgccc ttagcgtggt cgcggccgag gtactgtggt atggcacaga 120  
caatgcttgc ttagcgggtgc cttgttacat aggtggatgc agagtgcgca cacgggatga 180  
tggcaataaa gacctcactc agtcgttga atgaaggaa taggttaactg cttcaacaag 240  
gacgggtctca gctctacctt atctctcaac agagtgcaaa cactgagtgt gagctcagat 300  
gtcatcttgt tctctctttaa aattcaccaa attcttttgc acatttttct gttatagaga 360  
cacggatata ttcttcttca tagtcatcaa agttgctggt atctccagag cctctaaact 420  
ttggtatgaa tggagcttca acctctctct ggtaaatagc aatccaatct gtcgtggcaa 480  
accacttggt agtttttata tcaactgacac cattctttag atttccaaat ctcttgatca 540  
aatccacctg cagcagggtc cgtagaaggc ccttgagatc tgaactgaag tgggatggga 600  
atcggaacct tcagaaaca atcttttcat aaatctgaat tggttggtct gcaaagaatg 660  
gggtagatgc agctgccatt tcatagatta gcaactctaa tgcccaccaa tccactgctt 720  
tattgnagcc cttgctgaga attatttctg gagccaaata cctctggagt tccacataat 780  
ggccaagtgc tgcctttaac tcttttggca aacccccaaa gtctgtgacc cgggatatag 840  
ccctgatggc ccaattttaag aagaattttc angggtttaa aaactctggt aaatgaaggc 900  
taanggaaat ggaggnacct tttttttttt nnnnnnnntt ttttttttaa acnttgtaaa 960  
aggccaaaat tttggctana anttanttcc aaagnttnaa accntttcca aatttttttt 1020  
taat 1024

<210> 74  
<211> 1024  
<212> DNA  
<213> Homo Sapien

<220>  
<221> misc\_feature  
<222> (1)...(1024)  
<223> n = A,T,C or G

<400> 74  
ggagnnnnnn nttgagttcc ggccctctag atgcatgctc gagcggccgc cagtgtgatg 60  
gatatactga gaattcgccc tttcgagcgg ccgcccgggc aggtacagtc aactgcattt 120  
ttctctggtg accaagcttc cactgacaag gaagaggatt atattcggtt tgcccatggt 180  
ctgatatctg actacatccc taaagaatta agtgatgact tatctaaata cttaaagcct 240  
ccagaacctt cagcctcatt gccaaatcct ccatcaaaga aaataaagtt atcagatgag 300  
cctgtagaag caaaagaaga ttacactaag tttaatacta aagatttgaa gactgaaaag 360  
aaaaatagca aaatgactgc agctcagaag gctttggcta aagttgacaa gagtgggatg 420  
aaaagtattg ataccttttt tggggtaaaa aataaaaaaa aaattggaaa ggtttgaaac 480  
tttgaaaata aaatctagca aaaatatttg ctttttacat gttttaaaaa aaaaaaaaaa 540  
aaaaaaaaaa aagtacctcc attcactaga cctcatctac agagatctaa aacctgaaaa 600  
tctcttaatt gaccatcaag gctatatcca ggtcacagac tttgggtttg ccaaaagagt 660  
taaaggcaga acttgacat tatgtggaac tccagagtat ttggctccag aaataattct 720  
cagcaagggc tacaataagg cagtgggatt ggtgggcatt aggagtgcta atctatgaaa 780  
tggcactggc tatccccatt cnttcagac ccacccattc agaatttatt gaaaaagatg 840  
gttcttgaa ngncgaatt cccattcccc ttcagntcna actcaagggc ccttttacgg 900  
aancttggtt gcanggggga ttgatccagg anaatttgga aatcttaaa aaaaggggnc 960  
cggggtttta aaaacctcnc aagngggttt gccccancg naatgggatt ggtttttccc 1020  
ccna 1024

<210> 75  
<211> 1024  
<212> DNA  
<213> Homo Sapien

<220>

<221> misc\_feature  
<222> (1)...(1024)  
<223> n = A,T,C or G

<400> 75  
gagnnnnnnnt taactcccgc ttggtaccga gctcggatcc ctagtaacgg ccgccagtgt 60  
gctggaattc gcccttagcg tggctcgcggc cgaggtagta tatgtatttt attaaaaatg 120  
tggaagatta atctgtttct ctctgaatgt agattttcac caaaacatct cttaaaacag 180  
cagggactca acacttaaaa atgaactaga agagctgggc acagtggctc acgcctgtaa 240  
tcccagcact ttggggaggcc gaggcgggca aatcacttga ggtcaggagt tcgagaccag 300  
cctggccaac atggtgaaac cctgtctcta ctaaaaacac aaaaattaac tgggcatggc 360  
ggcacacgcc tttaatccca gctactcaag aggctgaggc aggagaatcg ctttgaacct 420  
gggaggcaga ggttgacgtg tgctgagatc ataccactgc attccagcct gggcgacaga 480  
gcaagactcc acctcaaaaa aaaaaagaag aaaagaaaat agtagtctca gccaggcgtg 540  
atggctcaca cctgtaatcc cagcactttg ggaggccaag gtgggcagat cacctgaggt 600  
caggagtctg agaccagcct ggccctacgtg gcaaaacctc atctctaata aaaatacaaa 660  
aattagcttg ggcgtggtgg catgcacctg tcatcccagc tatttgggag gctgagacag 720  
gagaagtcgc ttggaacctg ggangcagaa aattgcggtg aagctaagat cgcacgactt 780  
cacttccacc tgggcaaaaag anggaactct atctcaaaaa aaaaaaangg aaaaagttagt 840  
ctntaagaca ctgggcaaac cttgaaagga attgagcagt cctcactttt ctgnagtcan 900  
tttgnatnaat gccacatggc tcttttgnaa gaaatttgag agcttttttc taatcccaat 960  
ttttntaatt tgggaattcc tttttccgga ttttttcntt gccngngngt gttcccaang 1020  
gcct 1024

<210> 76  
<211> 1024  
<212> DNA  
<213> Homo Sapien

<220>  
<221> misc\_feature  
<222> (1)...(1024)  
<223> n = A,T,C or G

<400> 76  
gnngnnnnnnn ttnnnntgng antngggccc tctagatgca tgctcgagcg gccgccagtgt 60  
tgatggatat ctgcagaatt cgccctttcg agcggccgcc cgggcaggta ctctttgtgg 120  
ctggcttctt tttctgcaca caatgcctat gagaccataa cttaaagtcaa attccatggg 180  
cactaaccaa taatggcatc tcaaagaaat tccaacctag agaaattctg atgatgtggg 240  
tagaacacca atcaggacac tcacttcatg gttgataatt cccgacatgc actgattcag 300  
accagctta ttgaattcat tgagtccaca ggcagcact ttgctgact gggccaacag 360  
aaatgtccca tcacagccac attgaactgc aacaataatc aaggccttgg gaacatccac 420  
ctgcaagaaa aaaaatcagaa aaagaaatcc caaatatata attcgtatta gaaaaaaagc 480  
tctcaaatc tttcaaaaga gatagctgc atttagcaga atgactacag gaaagtggag 540  
actgctctat tcttttcagg tttgcccagt gtcttagaga ctactttttc tttttttttt 600  
tttgagatag agtttccctc ttttgcccag gctggagtga agtccgtgag atcttagctc 660  
accgcaatct ctgcctccca ggttcaagcg acttctcctg tctcagcctc ccaaatagct 720  
gggatgacag gtgcatgcca ccacgcccg ctaatttttg gatttttatt agagnatgag 780  
gttttgccac gtaggccaag ctggncttga acttctgacc ctcaagtga tggccaccct 840  
tgggccttcc aaagtgtctg gaattacagg gngagccatt acgcctggnn tgaaactcca 900  
atttcttttc ttcttttttt ttttgngggg gagcttgctn tgcncccaag ctgggaaagc 960  
cangggatga cttnnnncac tggaacctg gcttcagggt taaagggatt tctggcttaa 1020  
nccc 1024

<210> 77  
<211> 1024  
<212> DNA  
<213> Homo Sapien

<220>  
<221> misc\_feature  
<222> (1)...(1024)



&lt;223&gt; n = A,T,C or G

&lt;400&gt; 77

gagnnnnnnnt	aacttacacg	cccgettggt	accgagctcg	gatccactag	taacggccgc	60
cagtgtgctg	gaattcgccc	ttagcgtggt	cgcggccgag	gtactttttt	tttttttttt	120
ttttttttac	agaaggctgt	aaagctttat	tgggagaatt	ttaatgaaca	aattttcaac	180
ataggagcag	cctgcatcat	ttcaacgtgc	cttcttttaa	cactgtgatt	gcttttcacc	240
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cggcccttga	cctgcanatg	ctccctcatc	ctctccctcc	tgagcagctg	caggatcctg	420
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caangngacc	ggtacacttg	gcaangccct	aacgcccgtg	ccntttgntt	ttctttcctt	900
tcnttttngc	acgttnnncc	gggttttccc	ggnaagctnt	naaatngggg	ggtecccntt	960
tngggtccna	ataaggcntt	tagggnccct	ggnccccnaa	aaatttgntt	ttnnngggan	1020
ggtc						1024

&lt;210&gt; 78

&lt;211&gt; 1024

&lt;212&gt; DNA

&lt;213&gt; Homo Sapien

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(1024)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 78

gnagnnnnnn	ttgagtttgg	gccctctaga	tgcattgctg	agcggccgcc	agtgtgatgg	60
atatctgcag	aattcgccct	ttcgagcggc	cgcgcgggca	ggtacagcct	cctgaaatga	120
ttgggcctat	gcgcccccag	cagttcagtg	atgaagcgga	accagcaaca	cctgaaagaag	180
gggaaccagc	aaactcaact	caggatcctg	cagctgctca	ggaggagag	gatgagggag	240
catctgcagg	tcaaggggcg	aagcctgaag	ctcatagcca	ggaacagggt	cacccacaga	300
ctgggtgtga	gtgtgaagat	ggctctgatg	ggcaggagat	ggacccgcca	aatccagagg	360
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atgatgcagg	ctgctcctat	gttgaaaatt	tgttcattaa	aattctccca	ataaagcttt	480
acagccttct	gtaaaaaaa	aaaaaaaaaa	aaaaaaagta	ctcggccgcg	accacgctaa	540
gggcgaattc	cagcacactg	gcggccgtta	ctagtggatc	cgagctcggt	accaagcttg	600
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cacattaatt	gcgttgccgc	tcactgccc	ctttncagtc	gggaaacctg	tcgtgccagc	780
tgcattaatg	aatcggncaa	cgccccgggg	aaaaagcggt	ttgcgtattg	ggcgctcttc	840
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cttacttcaa	angcgggaaa	tccggttttc	cncggaaatc	aggggaatac	ccnggaaaaa	960
gaacttgtag	accnaaaggc	ccnccaaaag	gcccngnaac	cgtaaaaaan	ggcccntnn	1020
nntn						1024

&lt;210&gt; 79

&lt;211&gt; 1024

&lt;212&gt; DNA

&lt;213&gt; Homo Sapien

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(1024)

&lt;223&gt; n = A,T,C or G.

<400> 79  
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gctttcttct ccaggaaaga tcaaaacgat gcaactgcaag gttaacatcc aatttttaat 180  
acattgtgat tgggtccagat agctgcctta tccaactgcc tcctttggac cacttcatca 240  
tgggacagct tgatgcaatc tacttgacaa gaccctggaa cccacacccc ctcattggaac 300  
cagtgtccac ctcccagtc cagtgtgacc ccagggaact cttgcctgct tgctttaaac 360  
ccaccactta aaagtctcca cagaaaacct gtttgaatag tacctcggcc gcgaccacgc 420  
taagggcgaa ttctgcagat atccatcaca ctggcgccg ctcgagcatg catctagagg 480  
gccaattcg ccctatagtg agtcgtatta caattcactg gccgtcgttt tacaacgtcg 540  
tgactgggaa aaccctggcg ttacccaact taatcgctt gcagcacatc cccctttcgc 600  
cagctggcgt aataagcgaa gagggccgca ccgatcgccc ttcccaacag ttgcgcagcc 660  
tgaatggcg aaatggacgc gccctgtagc ggcgcatata gcgcgggcgg gtggtggtgg 720  
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gtgagggtca cgtatgggccc attggccctg aaaaacgggt ttttcgcccc tttgaccctt 960  
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ttng 1024

<210> 80  
<211> 1024  
<212> DNA  
<213> Homo Sapien  
  
<220>  
<221> misc\_feature  
<222> (1)...(1024)  
<223> n = A,T,C or G

<400> 80  
gnagnnnnnn tttnnttngg aattgggccc tctagatgca tgctcgagcg gccgccagtg 60  
tgatggatat ctgcagaatt cgcccttagc gtggtcgcg ccgaggtact attcaaacag 120  
gttttctgtg gagactttta agtgggtggg ttaaagcaag caggcaagag ttccctgggg 180  
tcacactgtg actgggaggt ggacactggg tccatgaggg gtgtgggggt ccagggtctt 240  
gtcaagtaga ttgcatcaag ctgtcccatg atgaagtggg ccaaaggagg cagtgggata 300  
aggcagctat ctggaccaat cacaatgtat taaaaattgg atgttaacct tgcagtgcac 360  
cgttttgatc tttcctggag aaagaagctg gtgcaaatga caaaaacagt acctgcccgg 420  
gcggccgctc gaaaggcgga attccagcac actggcgccc gttactagtg gatccgagct 480  
cggtagcaag cttggcgtaa tcatggtcat agctgtttcc tggtgtaaatt tggtatccgc 540  
tcacaattcc acacaacata cgagccggaa gcataaagtg taaagcctgg ggtgcctaatt 600  
gagttagcta actcacatta attgcgttgc gctcactgcc cgctttccag tcgggaaacc 660  
tgtcgtgcca gctgcattaa tgaatcgccc aacgcgcggg gaaaagcggn ttgcgtattg 720  
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gggatnacc cnggaaaaga acatgtgaan ccaaaaggcc accaaaaagg ncnnggaacc 900  
gtnaaaaang gccncntttn nnctgngttt ttccattaa gttcccgccc ccttgacagc 960  
ctttccaaaa attcganncc ttcaantnc aaagggggcn aaaacccnc cggggctttt 1020  
taag 1024

<210> 81  
<211> 1024  
<212> DNA  
<213> Homo Sapien  
  
<220>  
<221> misc\_feature  
<222> (1)...(1024)  
<223> n = A,T,C or G

<400> 81  
gngnnnnnnnt taacttacac gccagcttgg taccgagctc ggatccctag taacggccgc 60

```

cagtgtgctg gaattcgccc ttctgagcgg ccgccccggg aggtacctca ttagtaattg 120
ttttgttgtt tcattttttt ctaatgtctc ccctctacca gctcacctga gataacagaa 180
tgaaaatgga aggacagcca gatttctcct ttgctctctg ctcatctctc ctgaagtcta 240
gggtaccatc ttctgggacc cattataggg aataaacaca gttcccaaag catttgga 300
gtttcttgtt gtgttttaga atgggtttcc tttttcttag ctttttctg caaaaggctc 360
actcagtcct ttgcttgctc agtggactgg gctccccagg gcctaggctg ctttcttttc 420
catgtcccac ccctgagccc tccactggac agctcagtaa gcctggccct tcattctgcg 480
ctgtgttctt cctctgtgaa aatccaatac ctcttacctc ctctgcatgc aaagattctc 540
aaggattgtc agacttcaaa cgtaacagca gaaccaccag aaggctctat aaatgcagta 600
gtgaccttct caagctgtca ggtctttaa taggatttgg gatttaatgc tatgtatttt 660
taaaggaaaag aaataagaag ttgctagttt taaaaatgca tgtcttttaa ccaattcaga 720
atctgcccc aaactttttt naaaagtcaa gacagataaa gctttggggg agacngaaaa 780
aaaaaannnn nnnaaagagt accttngggc gggaacacgc taangggcaa attctggcan 840
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ataanggggg cgattacaat tncctggggc gcgtttttaa acgttnngaac tgggaaaanc 960
ctggggtncc cacnttaatg gccttggnga naatccccct ttncccnan tggngnannn 1020
nnnn 1024

```

&lt;210&gt; 82

&lt;211&gt; 1024

&lt;212&gt; DNA

&lt;213&gt; Homo Sapien

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(1024)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 82

```

gnagnnnnnn ttngttttg gccctctaga tgcattgctg agcgcccgcc agtgtgatgg 60
atatctgcag aattcgccct tagcgtgggc gcggccgagg tactcttttt tttttttttt 120
ttttccgtct ccccaaagct ttatctgtct tgacttttta aaaaagtttg ggggcagatt 180
ctgaattggc taaaagacat gcatttttaa aactagcaac tcttatttct ttcctttaaa 240
aatacatagc attaaatccc aaatcctatt taaagacctg acagcttgag aaggtcacta 300
ctgcatttat aggaccttct ggtggttctg ctgttacgtt tgaagtctga caatccttga 360
gaatctttgc atgcagagga ggtaagaggt attggatttt cacagaggaa gaacacagcg 420
cagaatgaag ggcagaggtt actgagctgt ccagtggagg gctcatgggt gggacatgga 480
aaagaaggga gcttaggccc tggggagccc agtccactga gcaagcaagg gactgagtga 540
gccttttgca ggaagggtt aagaaaaagg aaaccattc taaaacacaa caagaaaactg 600
tccaaatgct ttgggaactg tgtttattgc ctataatggg tcccaaaaat gggtaaccta 660
gacttcagag agaattgagc gagagcaaa gagaaatctg gctgtccttc cattttcatt 720
ctggtatctc aggtgaactg gtaaaaggga gacatttgaa aaaaatgaaa cnaccaaaa 780
cattactaat gaggtacctg cccnggcngg ccgttcnaaa gggccaattc cacacactgg 840
gcggccgcta cttaattgat ccnaactcgg taccaancnt tgcgtaaatc atgggccnnt 900
actgggttnc ctgggggnaa atggtatnec gttaccaatt ccccccaann ttcgancccg 960
gaanccctta agggtaaaanc cctggggggc ctnaagaggg gctaacttcc catttaaattg 1020
ggtt 1024

```

&lt;210&gt; 83

&lt;211&gt; 1024

&lt;212&gt; DNA

&lt;213&gt; Homo Sapien

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(1024)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 83

```

gggnnnnnnt taanttanac gccnncttg gtaccgagct cggatcccta gtaacggccg 60
ccagtgtgct ggaattcgcc cttctgagcg gccgccccgg caggtagact taaaattggg 120
gccgagcagg gatataacct gcagttaagt gaaaaaaaaa tccagcctcc ccctccaaaa 180

```

```

aaaaaaaaa atttaatttt taaaaattag tggatatggca ataagacact tcagaggcta      240
tcttaacctc tgaataccca tcttctagtt taaagacaga gacatcccat ctggaaaatg      300
ttaacttggt ttgtcatctc gttgccggag taagtagaca taagacagag tttagaagt      360
aaaaatatag aaaaattttg atggtcacaa tgagataaat attagaatat tactattcca      420
atgattaaat gaggatcttg aaataaattc tgaagtcttc caatttttac atttattgga      480
ggggtccttg agttctgtca acttttttat ttaagtctct tgctcttatt ttgtgcataa      540
atgttaaacc ttccaaaaat gaaatgtagt ctttctttct tttacttttt attaaattta      600
atagaaaata tgacctgagt agttaaaaag tattttgcat tatttgcatg aagatgtctc      660
tagcactgct caaagggcaa attttaaaac ttcagtcctg gtgaaagatt ttgctagttt      720
tacagaaaga tttgctatct taaactcaaa gctgggtttt cttttctcaa tgtaagtgc      780
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ctaagtgtaa nctatcccaa atgggctatc caaatttgaa tggngccctt catactgnga      960
aggaaaaang tggncctngg ccgggaacac ccttangggc caattttgcy anttccntac     1020
aatt

```

&lt;210&gt; 84

&lt;211&gt; 1024

&lt;212&gt; DNA

&lt;213&gt; Homo Sapien

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(1024)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 84

```

gnagnnnnnn ttgagntngg ccctctagat gcatgctcga gcggccgcca gtgtgatgga      60
tatctgcaga attcgccctt agcgtggctg cgggcgagggt acagcattat catctcagta     120
tgtagtggca cacattcaaa atcgtataga ccatatgagg atagattaca acttagaac      180
taaaataaat ttgttcaaca ctccagacaa catatagtgt agatgacagg aaagctctca     240
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ttacatgaga aaagaaaaac cagcttgagt ttaagatagc aaatctttct gtaaaactag     360
caaatctttc acccagactg aagttttaaa atttgccctt tgagcagtgc tagagacatc     420
ttactgcaaa taatgcaaaa tactttttta ctactcagggt catattttct attaaattta     480
ataaaaagta aaagaaagaa agctaacatt tcatttttgg aagggtttaac atttatgcac     540
aaaaaagag caagagactt aaataaaaaa gttgacagaa ctcagggacc cctccaataa     600
atgtaaaaat tggaagactt cagaatttat ttcaagatcc tcatttaatc attggaatag     660
taatattcta atatttatct cattgtgacc atcaaaattt ttctatatatt ttacttctta     720
aactctgnct tatgnctact tactccggca acgagatgac caccacaagt taacattttc     780
cagaanggat gtctctgnct ttaaaactaga aagatgggta tttcagaggg taagaatacc     840
ctctgaagtg gtcttaatgg cataccccta attttataaa antaaaattt tttttttttt     900
tgggangggg aaggctggat ttcccttcnc ttaacctnga gggtatatcc cctgnttggg     960
acccaatttt aagngnacct ggcccgggcn ggccgttcaa aagggcgaat ttccgncctt     1020
gggc

```

&lt;210&gt; 85

&lt;211&gt; 1024

&lt;212&gt; DNA

&lt;213&gt; Homo Sapien

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(1024)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 85

```

gngnnnnnnt taacnccagc ttggtaccga gctcggatcc ctagtaacgg ccgccagtgt      60
gctggaattc gccctttcga gcggccgccc gggcaggtag gcggggagag agaagcgagg     120
ttctcggttc gagggacagg cttgagatcg gctgaagaga gcggggccag gctctgtgag     180
gaggcaagac acagtgggtc gcaggatctg acaagagtcc aggttctcag gggacagggg     240
gagcaagagg tcaagagctg tgggacacca cagagcagca ctgaaggaga agacctgect     300

```

```

gtgggtcccc atcgcccaag tctgcccac actcccacct gctaccctga tcagagtcac 360
catgcctcga gctccaaagc gtcagcgctg catgcctgaa gaagatcttc aatcccaaag 420
tgagacacag ggcctcgagg gtgcacaggc tccctggct gtggaggagg atgcttcac 480
atccacttcc accagctcct cttttccatc ctcttttccc tctcctcttt tctcctctcc 540
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ttgggcnnt tcntttggcc ttggnncct ncctngggcc ctancttng aaggggaanc 1020
cnnn 1024

```

&lt;210&gt; 86

&lt;211&gt; 1024

&lt;212&gt; DNA

&lt;213&gt; Homo Sapien

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(1024)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 86

```

gnagnnnnnn ttngtcttcn gaattgggcc ctctagatgc atgctcgagc ggccgccagt 60
gtgatggata tctgcagaat tcgcccttag cgtggctcgc gccgaggtac tccaggtagt 120
tttctgcac ccaatcttgg gtgagcagct tctgggctc ccataaatg aggtgctcca 180
tcccatcata cagcccatc atattcagt ctccccagat gacctcctca ggggtgcagt 240
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ggcagtgagg atccacttcc tttacatcaa tgccaaagac cagcagcatg cactcggagg 420
cttactaaaa caacaaagg aagtggctct cataattttt tatgacactc tccagtattt 480
ctgcctttgt gatcggtcc ttcatttgat acttgaagag cagaaactgc accaaatcag 540
tcaccttttc atctatctca cttctgggta aagactcact gtctggcagg acctgtaggg 600
tgcttgagct ctcctccttt tggctgctgg agccctcatc agattgatct aatggaagg 660
aagcaacgac cgagggggag gagcaggcta tctgagcact ctgggggagg aattgggtgc 720
tcatcatcag cagaaacctt ctctgggggt cttggtatta gangatacag gaggaggagg 780
angaagaaga ngaagaagga aaagaggatg gaaaagaagg actgggtgga aatggatgat 840
gaagcatnct tcttcacagc ccaggggaac ctgtgcaccc ttnaagggcc tggggcttac 900
ttttgggaat tgaagaactt nttaggcnt gccanngntt tacccttttg ganccttnag 960
ggcctnaagn acctttganc angggnnnncn nnnnnnngga attgggcncg gaaatttggg 1020
ccna 1024

```

&lt;210&gt; 87

&lt;211&gt; 1024

&lt;212&gt; DNA

&lt;213&gt; Homo Sapien

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(1024)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 87

```

gggnnnnnnt taactcatc gccagcttgg taccgagctc ggatccctag taacggccgc 60
caggtgtgct gaattcgccc tttagcgtgt cgcgcccgag gtacattgag accagcaata 120
gttccagcat ctttggtagc ctgacgctga gagtcattaa agtaagctgg cactgtgacc 180
acagcattgg taacagctct cccaaggtag gcttctgcaa tttccttcat ctttgtcaga 240
acatagaag acacctcctc tggatagaag cttttggtct ctccttcta tctacttg 300
accttgggcc tgccagcatc attcaccacc ataaagggcc aatgtttcat atcagactgg 360
acaacagcat catcaaatct gcgtccaatc agacgtttgg catcaaaaac tgtgtcggtg 420

```

```

gggttcattg caacttgatt ctttgcggca tcaccgatca accgttcagt gtccgtaaag 480
gcgacatagc ttggagtggg tcgggtttccc tgatcattgg caattatctc gactttttccc 540
tgctggaaaa caccacacaca agagtaggtg gtgccaagat caataccaac tgcagggtccc 600
ttggacatgg ttgctgggat gtaggcctgg ctccaataac gaaggaaagcc acaaaaacccc 660
aagagctgca ggcgaaagtcc aatgagacccc ccgcgggacc tgcccggggcg gccgctcgaa 720
agggcgcaatt ctgcagatat ccatcacact ggcgggccgnt cgagcatgca tctaganggc 780
ccaattcgcc ctataagnga gtcgnattac aatcacttgg ccgcgtttta caacgtcgtg 840
acttgggaaa accctggggt acccaactta atcgncttgn agcacaatcc ccnttttncc 900
anttggcgga antnaccnaa aaggcccgna ccgaacggcc ntttccaaaa gttgcncaan 960
cctgaaangg caaaaggacc ccccccttta acggggccat taaacccccc ncnngggnnnn 1020
nngg 1024

```

&lt;210&gt; 88

&lt;211&gt; 1024

&lt;212&gt; DNA

&lt;213&gt; Homo Sapien

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(1024)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 88

```

gnnnnnnttn ngattgggcc ctctagatgc atgctcgagc ggccgcccagt gtgatggata 60
tctgcagaat tcgcccttcg agcgcccgcc cgggcagggt cgcgggggggt ctcatgggac 120
tcgctgcagc ctcttggggt tttgtggctt ccttcgttat tggagccagg cctacatccc 180
agcaaccatg tccaaggagc ctgcagttgg tattgatctt ggcaccacct actcttgtgt 240
gggtgttttc cagcacggaa aagtcgagat aattgccaat gatcagggaa accgaaccac 300
tccaagctat gtgccttta cggacactga acggttgatc ggtgatgccc caaagaatca 360
agttgcaatg aaccccaccg acacagtttt tgatgccaaa cgtctgattg gacgcagatt 420
tgatgatgct gttgtccagt ctgatatgaa acattggccc tttatggtgg tgaatgatgc 480
tggcaggccc aaggtccaag tagaatacaa gggagagacc aaaagcttct atccagagga 540
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cgtaatcatg gnccatactg gtttctgngg tgnaatgggt attccgggtc caattncnca 840
caacattcca anccggaagc cttnagtgtg aagccctggg tgcccttaag agtgagctta 900
ctnncantta aatgcgttgc gcttnnttgg ccgttttcca tcgggnaaan ctgcngccaa 960
ctggatttaa ggaattggnc aannccccgg ggaaaaaagn gtttggtatg gcgcttttnc 1020
gttt 1024

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&lt;210&gt; 89

&lt;211&gt; 1024

&lt;212&gt; DNA

&lt;213&gt; Homo Sapien

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(1024)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 89

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gggnnnnnnt taaactccag cttggtaccg agctcggatc cctagtaacg gccgccagtg 60
tgctggaatt cgccttgag cggccgcccg ggcagggtaca gttcagtaat gttaagtgtg 120
ttcacagtgc tgtgcaaaac atttctatct tgcaaaaccg aagttctata tccactaaac 180
aactccgcat tttccctctc ccagcccct gccaaactgcc attctacttt ctgtttctct 240
atatttgact acactagaca cctcatataa gttaaatcag agagtatttg tttttttgtg 300
actggtttct ttaaaacttag cataacatcc tcaagatcca tcaatagtct atcatgtatc 360
atgtattact tcttttttaa ggttgaacaa tattccactg tgtgtgtgtg tgtgcacgtg 420
tataccacgt tttgttttag cattcgtcca tcaatggaac ttgggttgct tcgacccttt 480
ggctactgta ttacgttggt ctacgattgc tataaagacc tgaggttggg taatttataa 540

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agaaaagaag ttctgcaggc tatacaagca tgggtgctggc atctgcctgg cttctgggga 600
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gaaagcagga gcaagaaaaga gtggggagggt tgccatcact taaaaaacca gatcccatga 720
gtattcatta ttgcaagaac agcatcaaac catgagggtt cancccggtg cccaaacacc 780
ttccaacang cccaactcg cattaaggat acctttcnaa nntaagggtt gggggggacc 840
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aaatttttaa aggantccca acccttttaa ngaactaaag gtttcccgna nnnngaaaag 960
tttttncccc ngggggnaaa attnaatggn tttncccnaa aaantaantt ttnaaagaaa 1020
nttt 1024

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<210> 90  
 <211> 1024  
 <212> DNA  
 <213> Homo Sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(1024)  
 <223> n = A,T,C or G

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<400> 90
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actaatgggtc atttacaat tcaaaccatga gataaagtat ttgggtgatg gtccatcaag 180
tataactcag aaatcagtaa acaagtcttt tcccaaagta agttccttct aaatgtagct 240
aaaaagagcc actttgtcat taaagtgaat gagtatgcat ttttagaaca gacttgatgt 300
ttggattgtg ttaaacatat gtctgttagt gaaagtgtta gtcacaaaga taaaatttca 360
tctaaaaata atatataagag aaaaatgcaa taaatataca catggtaaaa tacttctctt 420
ttctgtaaac ttttagttct ttataagggt tgtgatatca tttaaaaatt tttctgtatt 480
gaaagaaact ggagacactg ttcatagcag ctgatatagt ttggatattt gtccccaccc 540
aaaccttata ttgaaatgta atccttaatg cggagggtgg gcctggtggg aggtggttgg 600
gccacggggg tggagcctca tggtttgatg ctgttcttgc aataatgaat actcatggga 660
tctggttttt aaagtggatg gcacccttcc ccactctctc ttgctcctgc tttcaccatg 720
tggcatgcct gctcctgcct caccttcacc atgagtnaaa ggnccctgang cctcccagaa 780
gccangcaga tgccancanc attgcttga tagcctgcan aacttctttt ctttataaaa 840
taccccaacc tnaggcntta tgccatgctt gaacaaccgt aatnctanc ccaanggtcn 900
aaccaacca ggtccattgg nngggcnaag gnttaacnaa acngggnnct cctgcnacna 960
nnnnccccc nngggnaaat gcaacccttn aaaanaagnn tncctgganc cngnnnnncc 1020
nttt 1024

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<210> 91  
 <211> 1024  
 <212> DNA  
 <213> Homo Sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(1024)  
 <223> n = A,T,C or G

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<400> 91
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tgtgctggaa ttcgccctta gcgtgggtcg gcccgaggta ccttggaagt tatgtcatta 120
atataggctg gttcatcaaa taaagcaaaa ccttgcaata tcagctagat ttacactccg 180
ggacgttgcc caaaggtagg aagaaagcag agggaaatat ttcagtcac atttccaaag 240
tcattatcaa aatctgtgag gaagttta atctccaaaga gtcaatgtca gacatcaggc 300
ctctgttgcc tgcctctctc gaggcactag attaggagtc ttcaataaga gacttaacat 360
gaggtatatg gaagatgagg caccgagata agttcatcat taggtgtgag cactgctcac 420
ccttgctggc aagttctcct taagggcctg aagcacaggt gtccaaagaa aagcgttaa 480
tccattctaa tagaatctat gtggtatatg atgtgggtcag cccctggtct gtgatcagca 540
agaacctaca gcacagatta tgccctgccc acttcaatga atacctactc tccctccattc 600
tccatcactt tttttgctat caagaactcc ggaccttgcc catgggagaa gtttagagag 660

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gaactcttgt	ggagaactgg	tttattttct	gccctgtgcc	gacgagtttc	agctggccaa	720
gaaaggagtc	aagttattaa	aaagcatcac	aatggagatc	ttccaggctg	ggttttttgg	780
tttttggtgg	taaaactggg	ggaaangggg	actatttatt	ctggccttaa	atcaatnggc	840
aaattaagtc	aagaagaccn	ttttgggaat	gtngactatg	gatnccctcc	taatngaagt	900
gagnagcctt	aaaaaggggg	caangtaang	gttttcnggt	atggaagcca	aaanttttnc	960
cggctnaatg	ggntggntnn	ccaatattnn	taccggcccn	aaangggntt	tttncnnngg	1020
gtcc						1024

<210> 92  
 <211> 1024  
 <212> DNA  
 <213> Homo Sapien  
  
 <220>  
 <221> misc\_feature  
 <222> (1)...(1024)  
 <223> n = A,T,C or G

<400> 92						
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tgaatgatg	tgtagatttc	aatctaataa	cagctcatcc	aatgacaaa	tatggtcgaa	180
atccctccag	tggtctgagga	aatttctgca	cctatatgga	acccacatgc	aaagaaccca	240
tctagcatgt	aataaataat	cgctagccat	actcaataag	acacggaaaa	attattgctt	300
acataacaga	aaaacatcta	cttgaccccc	ttttatgact	acatcaatct	attaggagtg	360
tatccatagt	ctacattcac	aaaatgtcat	cttgacttat	ttgccattga	tttaaggcag	420
aataaatagt	ccccctttcc	ccagtcttaa	caacaaaaaa	caaaaaacca	gcctggagat	480
ctacattgtg	atgcttttta	ataacttgac	tcctttcttg	gccagctgaa	actcgtcgca	540
cagggcagaa	aataaaccag	ctctccacaa	gagttcctct	ctaaacttct	ccatgggcaa	600
ggtccggagt	tcttgatagc	aaaaaaagt	atggggagaat	ggaggagaag	taggtattca	660
ttgaagtggg	cagggcataa	tctgtgctgn	aggttcttgc	tgatcacaga	ccaagggctg	720
accacatcat	ataccacata	gattctatta	agaatggact	taacgctttt	ctttggacac	780
ctgtgcttta	ngccctttaa	ggagaacttg	ncanccangg	gtgagcagtg	cttcacacct	840
taaggatgaa	ccttaatctc	ggggcctcat	cttccatata	nccctaagg	taagnctctt	900
taatggaaga	ctcctnaatt	agnggccttg	aaaagaagca	ggcaccggaa	gggcctgagg	960
ctgacattgg	ctcttttnga	agaataaact	ttccttaccg	naatttgga	aaggaccttt	1020
ggaa						1024

<210> 93  
 <211> 1024  
 <212> DNA  
 <213> Homo Sapien  
  
 <220>  
 <221> misc\_feature  
 <222> (1)...(1024)  
 <223> n = A,T,C or G

<400> 93						
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attgtttttg	taacagtatg	caaaatgata	ctgtattggt	agaacaaaaa	tctgtggagt	180
gttaataactt	tgtaaagcaa	attaaagttt	ctaagcagta	taaaatgaga	atgacatcat	240
cctttcctag	tatttccaag	tcttagagta	ctctacaccc	tgttggtctat	ttatctgggg	300
ttagacttct	ggagactttt	cagatagact	tgaagtctct	ggccttgccct	gggaattact	360
ggctgcccga	ggaagcactg	gagaaggcgg	tggtctcctt	gcccttgtgg	tcctgctgtg	420
gcgcattttg	attgagttcc	tggttcggct	ggtcagagtg	gctggatagt	gttggccccc	480
tccattcctc	aggttttttt	gaagcgggtg	tcttttaggg	agagcctttt	gttctgggaa	540
cttccttgac	gggtcccttt	tccttctctg	gttgctcttg	gaacctcttt	gggtgtgatg	600
ggttgtgtgt	ggaaaatggg	ctggaggctc	gtggtttccct	ggacatcttc	accagaccag	660
tgtctctcaa	cagtctactc	cagtcacact	ggctcncctg	agcttccccca	ggacagtga	720
ngcaggccac	aggtananaa	ctgtagtenc	ccgacattac	aagccaattt	gggnctgtgg	780



gctctgnttt	ccaaatcaac	cctttcanct	tcatttgga	ncccatcag	gaaanccccg	840
cgtaccttgc	ccgggcgggc	cgttcnaaag	ggcgaattct	gcanaaatcc	cttanacttg	900
ggnggncgt	ttnaacctgc	cttttaaagg	gcccaattnn	nccctntnna	nnggagcgan	960
taccaattnn	ntnggnccgc	gttttnaaaa	cgnnnnnann	tnggnaaaa	ccctggggtn	1020
cccc						1024

&lt;210&gt; 94

&lt;211&gt; 1024

&lt;212&gt; DNA

&lt;213&gt; Homo Sapien

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(1024)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 94

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gaattcgccc	ttcgagcggc	cgcccgggca	ggtacgcggg	gcttcctgga	tggggatcca	120
gatggagggtg	gagggttgat	ttgggaagca	gagcacagca	gcacaaattt	gcttgtaatg	180
tcggcgacta	cagtttctag	cctgctggcc	tgcttctact	gtcctggggg	aagctcgggg	240
agaccagggtg	gactggagta	gactgttgag	agacactggg	ctgggtgaaga	tgtccaggaa	300
accacgagcc	tccagcccat	tttccaacaa	ccacccatca	acaccaaaga	ggttcccaag	360
acaacccaga	agggaaaagg	gacccgtcaa	ggaagtcca	ggaacaaaag	gctctcccta	420
aaagaccacc	gcttcaaaaa	aacctgagga	atggagtggg	ccaacactat	ccagccactc	480
tgaccagccg	aaccaggaac	tcaatcaaaa	tgcgccacag	caggaccaca	aggccaagga	540
gaccaccgcc	ttctccagtg	cttctctggg	cagccagtaa	ttcccaggca	aggccagaga	600
cttaagtcta	tctgaaaagt	cttccagaag	tctaacccca	gataaatagc	cnaacagggg	660
ggagagtact	tctaagactt	ggaaatctta	ggaaagggat	gatgtcantc	tcattttata	720
ctgnttaaaa	actttaantt	ggcttacaa	tattaaccct	tcacagaant	ttgtctacca	780
tcnagnatca	atttggcatc	tggtccaaaa	ccattttttt	agggcanttt	gaaaagtcc	840
tnggccggga	acaccttaag	ggcgantcca	gncacttggg	nngncgtnan	nnnaagggtcc	900
caactcgnn	caaannttgn	gnaaacatgg	gnnnanattg	gntcctgggg	ggaaatgtat	960
ccgnttaca	nttccncaa	ntnncnaanc	cggannnnt	taagggtaaa	nnccctgggg	1020
gccc						1024

&lt;210&gt; 95

&lt;211&gt; 1024

&lt;212&gt; DNA

&lt;213&gt; Homo Sapien

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(1024)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 95

gggnnnnnnt	taactccagc	ttggtaccga	gctcggatcc	ctagtaacgg	ccgccagtgt	60
gctggaattc	gccctttcga	gcggccgccc	gggcagggtac	tttttttttt	tttttttttc	120
cgtctcccca	aagctttatc	tgtcttgact	ttttaaaaaa	gtttgggggc	agattctgaa	180
ttggctaaaa	gacatgcatt	tttaaaacta	gcaactctta	tttctttcct	ttaaaaatac	240
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tttgcatgca	gaggaggtaa	gagggtattg	attttcacag	aggaagaaca	cagcgagaa	420
tgaagggcca	ggcttactga	gctgtccagt	ggagggctca	tgggtgggac	atggaaaaga	480
aggcagccta	ggccctgggg	agcccagtc	actgagcaag	caagggaactg	agttagcctt	540
ttgcaggaaa	aggctaagaa	aaaggaaaac	cattctaaaa	aacaacaaga	aactgtccaa	600
atgctttggg	aactgtgttt	attgcctata	atgggtcccc	aaaatgggta	acctagactt	660
cagagagaat	gagcagagag	caaaggagaa	atctggctgc	cttccatttt	cattctgnta	720
tctcagggtga	actggtanan	gggagacatt	ngaaaaaat	gaaacnacca	aaaccattac	780
taatgaggta	ccttnggncc	gggaacacgc	ttaaggcgaa	ttttgcagaa	atncattaca	840
ctggcggncc	gttcagcatg	cttttaaagg	gccaattnc	cctttaaggg	agtcgnatta	900

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caattnnant gggccgcgtt ttacaacgtn nggaactggn aaaacccctg gggtnnccca 960
cttnaannnc cttggnnnan aatccccctt tncnaantg gggnnnnnnn ccaaaggccc 1020
cnaa 1024

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<210> 96
<211> 1024
<212> DNA
<213> Homo Sapien

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<220>
<221> misc_feature
<222> (1)...(1024)
<223> n = A,T,C or G

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<400> 96
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gttttgttgt ttcatttttt tctaattgtc cccctctacc agctcacctg agataacaga 180
atgaaaatgg aaggacagcc agatttctcc tttgctctct gctcattctc tctgaagtct 240
aggttaccca ttttggggac ccattatagg caataaacac agttcccaaa gcatttggac 300
agtttcttgt tgttttttag aatgggtttc cttttctta gccttttctt gcaaaaggct 360
cactcagtcc cttgcttgct cagtggactg ggtccccag ggcctaggct gccttctttt 420
ccatgtccca cccatgagcc ctccactgga cagctcagta agcctggccc ttcattctgc 480
gctgtgttct tccctgtgta aaatccaata cctcttacct cctctgcatg caaagattct 540
caaggattgt cagacttcaa acgtaacagc agaaccacca gaaggtccta taaatgcagt 600
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ttaaaggaaa gaaataagaa ttgctagttt taaaaatgca tgtcttttaa ccaattcaga 720
atctgcccc aaactttttt naaaagtcaa ggaccgataa agctttgggg agacngaaaa 780
aaaaaannnn aaaaagtacc tggccgggcn ggccgttcna aaggcgcaaa ttcaacacac 840
tggcgcgccc gtacttaatg gatcccaact cggncccaac cttggggaaa ncatgggccc 900
taactgggtt cccggggggg aaatgggtatt cgggttacia attccccccc annttccana 960
cccggaannc cnttaagggt aaaanccctg gngggccena angggggggt nacctccctt 1020
tnaa 1024

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<210> 97
<211> 1024
<212> DNA
<213> Homo Sapien

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<220>
<221> misc_feature
<222> (1)...(1024)
<223> n = A,T,C or G

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<400> 97
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cgccagtgtg ctggaattcg cccttagcgt ggtcgcgccc gaggtacatc tgattttata 120
tgttgtccaa actggtcaat ccagttgctt aacacagaaa gcggacagat gatcagtgtt 180
gttcttggtc tctcctcaac atcagtttct tttgacccct ccaactgcaca agtccccctt 240
ttcaacattt tcttttttgt tgtaggaaca gatgaagtta atgcacatgc aaatgccaca 300
tcttctataa ccttagaaga tcttttcgcc ctgccttttag tttcagactg tacagagggg 360
gagagagaga gaaagagagc acgccagtga gaaagcgagc gcgagcgcga gcgcaagggg 420
aggagagggg gggagagggc ggaaggggga aagctgtccg tgggagattg tgtcttcagt 480
tccacggggc tgcattctct gatggtgcac tgaaaaagca gagctcacca gacagagtgg 540
aaaggcaggg ggaggggcag ggagcaacag aaggaagaga caacaagccc aagacagctt 600
ccatctcaga cggaaggccc ccagaagata gaattccagc cgactgaaaa accacccaat 660
gaacaaagaa gattctagaa aatagaagtg ttgggattac aaagttgngc gtttcatcgg 720
tacctgccc ggcggnccnt caangggcga attctgcaga tatccatcac actggcggn 780
gntcgagcat gcatntagan ggcccaantc gncctataag ggagtcgnan tacaattcac 840
ttggcgcgcg ttttacaacg tctgacttgg naaaanccct gnggttnccc aacnttaaac 900
ggcnttggag nacaattccc ctttttncca anntggggna antnaccaaa agggcccccnn 960
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ttaa

1024

<210> 98  
<211> 1024  
<212> DNA  
<213> Homo Sapien  
  
<220>  
<221> misc\_feature  
<222> (1)...(1024)  
<223> n = A,T,C or G

<400> 98  
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ttgtaatccc aacactttct attttctaga atcttctttg ttcatgggtt gggttttcag 180  
tcggctggaa ttctatcttc tgggggcctt ccgtctgaga tggagctgt cttgggcttg 240  
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ccacggacag ctttccccct tccgcccctc cccaccctct cctccccctg cgtcgcgct 420  
cgcgctcgct ttctactgg cgtgctctct ttctctctct ctctccctct gtacagtctg 480  
aaactaaagg cagggcgaaa ggatcttcta aggttataga agatgtggca tttgcatgtg 540  
cattaacttc atctgttctt acaacaaaaa agaaaatgtt gaaaaaggga gcttgtgcag 600  
tggagggttc aaagaaaaact gatgttgagg agagaccaag aacaacactg atcatctgtc 660  
cgctttctgt gttaagcaac tggattgaca gtttggacaa catataaaaa tcagatgtac 720  
ctcggnccgc accacgctta gggcgaattn cagcacactg ggcggccgtt acttaatgga 780  
tccgaactcg naccaagcct tgcgtaaaaa tgggcaatac tggnttctct nggggaaatg 840  
gtaatccggt tacaaattcc ccacaacntt acaanccgga agcccttaag ngtaaaaccc 900  
ctgggngccc caaagagtga gctaacttnc catttaaatg cgttngctca atggcccggt 960  
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aaan 1024

<210> 99  
<211> 1024  
<212> DNA  
<213> Homo Sapien  
  
<220>  
<221> misc\_feature  
<222> (1)...(1024)  
<223> n = A,T,C or G

<400> 99  
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agagggtaaa atgaaatctg ccccatcctt cttacatata cagtgatagc attttgaatt 180  
gttctttctac atttgaaatc tttagctgaa gatcatcagc caccgacctt ttgtgaagct 240  
agttctctag aacatacaat gttttttaaa aaattaaaaa cacagaagga aaaaagcaag 300  
aaccaacgat aaatggagct tgtgcagaat ctggcagtgc tgtggacctg cccatctgtt 360  
ctcccccgcg tactgactga acacactccc cgctttggtt cctgtaggac gggtagagata 420  
ccacaccttg gcaaccacca gtaaaaggctc atagtctagc ccttgggagg ccccgatttt 480  
agggtgtgct tcggaggcga cctacgttag ggactgggag aagcgggtac ctccggccgcg 540  
accacgctaa gggcgaattc tgcagatata catcacactg gcggccgctc gagcatgcat 600  
ctagagggcc caattcgccc tatagttagt cgtattacaa ttcaactggc cgtcgtttt 660  
acaacgtcgt gactgggaaa accctgccgt taccacaactt aatcgccctg cagcacatcc 720  
cccttttcgcc agctgcgtaa taacgaaaaa cccgnaccga tcgccccttc cacagttgcg 780  
caacctgaat ggnaatgga ccccccttg taccggcgca ttaaccnccn gccggnntnt 840  
ggggtaaccc cagctggacc ggttcaactg gccaggcccc taangnccgg ttentttggt 900  
ttcttncctt ccttttttng cccgttngcc nggtttttcc cgtaagcttt taaanngggg 960  
gcttccccct ttangggctc aaataangct ttacgggncc ttaaccccc aaaaaattt 1020  
nnnt 1024

<210> 100  
<211> 1024  
<212> DNA  
<213> Homo Sapien

<220>  
<221> misc\_feature  
<222> (1)...(1024)  
<223> n = A,T,C or G

<400> 100  
gggnnnnnnnn ttngttcng aattgggccc tctagatgca tgctcgagcg gccgccagtg 60  
tgatggatat ctgcagaatt cggccttagc gtgggtcgcg cggaggtacc cgcttctccc 120  
agtccttaac gtaggtcgcc tccgagcaca gccctaaaat cggggcctcc caagggctag 180  
actatgagcc ttactgggtg gttgccaaagg tgtggatatc caccgcctcc acaggaacca 240  
aagcggggag tgtgttcagt cagtacgcgg gggagaacag atgggcaggt ccacagcact 300  
gccagattct gcacaagctc catttatcgt tggttcttgc ttttttctt ctgtgttttt 360  
aattttttta aaaacattgt atgttctaga gaactagctt caaaaaagg cggtggctga 420  
tgatctttca gctaagattt caaatgtaga agaacaattc aaaatgctat cactgtgtat 480  
gtaagaagga tggggcagat ttcatTTTTT cctctagtct cctcaatgc atgcacggat 540  
ttatctgtac ctgcccgggc ggccgctcga aagggcgaat tccagcacac tggcggccgt 600  
tactagtggg tccgagctcg gtaccaagct tggcgtaatc atgggtcatag ctgnttctctg 660  
tgtgaaattg ntatccgctc acaattccac acaacatacg agcccgaag ccataaagtg 720  
tnaaagccct ggggtgcctn atgagtgagc taactcacat ttaattgcgt tgcgctcact 780  
ggcccgnntt cagtcgggaa aactgcntgc cactgcttaa tgaatcgcc acgcccggg 840  
gaaaaagcgn ttgcgtantg ggcgctnttc cgcttctctg gttaactgac tcnttgggct 900  
ttggccttng gnttnngggn aacgggttna acttncnttn aaangggggn naatccggtg 960  
tncccgaag nncggggata acccccgaag anaactttgn ccnaaaggcc ccnaaangg 1020  
cccnn 1024

<210> 101  
<211> 1024  
<212> DNA  
<213> Homo Sapien

<220>  
<221> misc\_feature  
<222> (1)...(1024)  
<223> n = A,T,C or G

<400> 101  
gggnnnnnnt tgaatnacac gccagcttgg taccgagctc ggatccctag taacggccgc 60  
cagtgtgctg gaattcgccc ttagcgtggt cgcggccgag gtacgcgggt attttcttaa 120  
atttcttgaa tgttctttat ggtagtgtta ctaaaaagtt tatgatcaca ttttctattg 180  
gaacataatt tgaactcatt atcacacact tggaaaatac agaaaagtgg aggaaaaaaa 240  
atcatatccc caccatccaa agacatatac tctcctctta tcttgttcat tcttgtttct 300  
gtgcacaggt ttatgattat aactgtgtca aaatgtatat tcaaaatagc tgttacatta 360  
cctttgtgga attatggtta aatactttca ctttaatttt ttcaaatgtt ccctataata 420  
atgttctgat aacagtgtat tatgtgtgtc tccattgggtg tgcataatac ataccagag 480  
gaaaaattag aaaataaagt aaattatttt aaaaaattac ctatattccc aacacctaac 540  
aactactgct aacatcttga tctgtttcct ctatcttgtt tcagtgcaca cgcttgtgat 600  
aacagtgtta aatatgtgtg cataaagtct taaatgaaaa gatgtggaaa ataactaaaa 660  
tagtgtgtgc attgtgggaa tttggttaaa tattttgtct caaattcctt aaataatctt 720  
tgggtgtttg gtaataaatt ttaatgatgt attttccatt acaaatataa tacatactca 780  
tacaaaactt tggaaaatta gtaaagaaaa ttcacacata ttcccacacc caacaccaat 840  
ttaactggtn accatctgga ctgngcncta agctgggatt antttaggng tagtggataa 900  
gtatgcctaa aggccaaaaa tgggaagaag gatgaaaanc cngaaaatan ttnccttggt 960  
gtnnngggga taaggggaa ttgggttcgg ttcccttgaa agggcatnnn ttccaagggg 1020  
tttg 1024

<210> 102  
<211> 1020

<212> DNA  
<213> Homo Sapien

<220>  
<221> misc\_feature  
<222> (1)...(1020)  
<223> n = A,T,C or G

<400> 102  
ggagnnnntt aaacgccagc ttggtaccga gctcggatcc ctagtaacgg ccgccagtgt 60  
gctggaattc gccctttcga gcggccgccc gggcaggtag tctttctctc ccctcctctg 120  
aatttaattc tttcaacttg caatttgcaa ggattacaca tttcactgtg atgtatatgt 180  
tggtgcaaaa aaaaaagtgt ctttgtttta aattacttgg tttgtgaatc catcttgctt 240  
tttccccatt ggaactagtc attaacccat ctctgaactg gtagaaaaac atctgaagag 300  
ctagtctatc agcatctgac aggtgaattg gatggttctc agaaccattt caccagaca 360  
gcctgtttct atcctgttta ataaattagt ttgggttctc tacatgcata acaaaccctg 420  
ctccaatctg tcacataaaa gtctgtgact tgaagtttag tcagcaccct caccaaactt 480  
tatttttcta tgtgtttttt gcaacatag agtggtttga aaataaagta cctcggccgc 540  
gaccacgcta agggcgaaat ctgcagatat ccatacact gcgggcccgt cgagcatgca 600  
tctagagggc ccaattcgcc ctatagtgag tcgtattaca attcactgcc cgtcgtttta 660  
caacgctcgt actgggaaaa ccctgcgtta cccaacttaa tcgccttgca gcacatcccc 720  
ctttcgccag ctggcgtaat aacgaaaagc cccggaccga tcgccctttc caacagggtg 780  
gcaacctgaa tggcgaaatg gacccccctt ggaaccggcg cantaaacc cgcncggggn 840  
nntnggggtac ccccccacggg ganccgttca cttggccann gcctaangn cccgttctt 900  
tnggtttctt tcttctctt ttgccggtt gnccggttt tcccgnaag ctttaaaaaa 960  
gggggcctcc ccctttangg gtcnaataa nggcttttac gggnccttng aaccccaaan 1020

<210> 103  
<211> 1021  
<212> DNA  
<213> Homo Sapien

<220>  
<221> misc\_feature  
<222> (1)...(1021)  
<223> n = A,T,C or G

<400> 103  
ggagnnnttn ngnnngggccc tctagatgca tgctcgagcg gccgccagtg tgatggatat 60  
ctgcagaatt cgcccttagc gtggteggcg ccgaggtact ttattttcaa aacactcata 120  
tggtgcaaaa aacacataga aaaataaagt ttgggtgggg tgctgactaa acttcaagtc 180  
acagactttt atgtgacaga ttggagcagg gtttggtatg catgtagaga acccaacta 240  
atattataaa caggatagaa acaggctgtc tgggtgaaat ggttctgaga accatccaat 300  
tcacctgtca gatgctgata gactagctct tcagatgttt ttctaccagt tcagagatgg 360  
gttaatgact agttccaatg gggaaaaagc aagatggatt cacaaccaa gtaattttta 420  
acaaagacac tttttttttt gcaacacaat atacatcaca gtgaaatgtg taatccttgc 480  
aaattgcaag ttgaaagaat taaattcaga ggaggggaga gaaagagtag ctgcccgggc 540  
ggccgctoga aaggcggaat tccagcacac tggcgggcgt tactagtggg tccgagctcg 600  
gtaccaagct tggcgtaatc atggtcatag ctgnnttctg tgtgaaattg gtatccgctc 660  
acaattccac acaacatagc agcccgaag cataaagtgt aaagccctgg ggtgccta 720  
gagtgaagta actcacatta aatgcgttgc gctcactggc cgctttncag tccgggaaac 780  
ctgtcgtgcc agctgcatta atgaatccgg ncaacgcccc ggggaaaaag cggttgcgta 840  
ttggcgctc ttncgctttc ttggttactg gctccttng cctcggccgt tccgnttcg 900  
gnnaaccggt atcagcttac ttcaaangc gnaaatccgg tttnccong aatccggggg 960  
ttaacnccag gaaaanaacc tttgaaccna aaggggcccn aaaagggcc ggaaccctaa 1020  
a 1021

<210> 104  
<211> 1017  
<212> DNA  
<213> Homo Sapien

<220>  
<221> misc\_feature  
<222> (1)...(1017)  
<223> n = A,T,C or G

<400> 104  
ggagnnnntta atcnacgccc gcttggtacc gagctcggat ccctagtaac ggccgcccagt 60  
gtgctggaat tcgccccttag cgtggctcgc gccgaggtac tcagctgtct taataggatg 120  
aagcccttaag cagtggaaat ttcagttatt ttccacagta ttccattttg gaggatttgg 180  
ggtgtttact ttttaaattc ttgaacaact taacctccat gaggctttgt gaagtcagct 240  
gtgaccacccc tcctcttact gtgttctcag tattcattca cttccaggga agaattgacag 300  
ccacagggag atggtggtgg gcaagaatga gagtcccagg atccagattt agcctcagat 360  
cttccccatt caggaagggt tttccattta acaagagcac tagtatgaaa acattaggga 420  
caaattctccc atgtctttga aattcggatt ctccctcttga gatccccttc ctcacctgcc 480  
aatcaacttt ataagggcac aagtggtcac ttgttttctc tccacagggt tgaggttctc 540  
agcttttctt aagcgaccca gcagctccgc tgttttcaga gtgaatatgt taagctttga 600  
tgagattcta ttttcagtaa gttagtgtt ctgggacact tggagaaagc tgtgagagtc 660  
attggctacg caaagaacaa cgaaagctga tcttaaaagt gatccaatct aagaaaatgg 720  
taaaacgagc tctggccaca gcacagaatt ttatgtgang aactcagatt tttgaagact 780  
taacaattgc agaaaaaggn tgcagcctgn acaccatag cccaactttt ntgagccana 840  
ctttgggttt tggnggggga cntggcacca tgtttgnacc tggccggccg gncctgtcna 900  
aagggccaaa ttntggcnga aatnccttac actggggggc cgtttgagca tgcctntaaa 960  
ngggcccaan tngnccctta aaggggggcn nnttccaatt nctggggccc ggttttn 1017

<210> 105  
<211> 1024  
<212> DNA  
<213> Homo Sapien

<220>  
<221> misc\_feature  
<222> (1)...(1024)  
<223> n = A,T,C or G

<400> 105  
ggagnnnntt nnnntnnngan tgggcccctct agatgcatgc tcgagcggcc gccagtgtga 60  
tggatatctg cagaattcgc cctttcgagc ggccgcccgg caggtaaaaa catgtgccac 120  
gtcaccacac aaaaccaaag tctgctcaga gagggtgggt atggtgtgca ggctgcaacc 180  
tttctctgca attgttaagt ctcaaaaaat ctgagttcct cacataaaat tctgtgctgt 240  
ggccagagct cgttttacca ttttcttaga ttggatcact tttaggatca gcttcgttgt 300  
tctttgcgta gacaatgact ctcacagctt tctccaagtg tcccagaagc actaacttac 360  
tgaaaaataga atctcatcaa agcttaacat attcactctg aaaacagcgg agctgctggg 420  
tcgcttaagg aaagctgaga acctcaaacc tgtggaagga aaaccagtga ccacttggtg 480  
ccttataaag ttgattggca ggtgaggaag gggatctcaa gaggagaatc cgaatttcaa 540  
agacatggga gatttgtccc taatgttttc atactagtgc tcttggttaa tgaaaaaccc 600  
ttcctgaatg gggaagatct gaggctaaat ctggatcctg ggactctcat tcttggccac 660  
caccatctcc ctgtggctgt cattcttccc ctgaagtga tgaatactga gaacacagta 720  
aggaaggagg gtggtcaca gctgacttca caaagcccta atgganggtt aagttgggtca 780  
agaatttnaa aagtaacccc cccaaatcct ccaaaaatgg gaatactggt ggaaaaatac 840  
ctggaaattn cctgggttta aggcttcatt ctattaagac cgcttgagta cccttggccg 900  
ngaacccct taagggcgaa ntncacaca ctggngggc cggtacctaa nggatcccaa 960  
ctnggnaccc aancnttggg gaaancatng ggccataact ggttccccg ggggaaatgg 1020  
taat 1024

<210> 106  
<211> 1007  
<212> DNA  
<213> Homo Sapien

<220>  
<221> misc\_feature  
<222> (1)...(1007)

<223> n = A,T,C or G

<400> 106

ggagnnnnntt	aaacgccagc	ttggtaccga	gctcggatcc	ctagtaacgg	ccgccagtgt	60
gctggaattc	gcccttagcg	tggtcgcggc	cgaggtacac	agaatagctg	agcagttcac	120
ttcagggatc	aggtcatctc	tgctcctcct	agtttcacca	tggtctggca	ataaaaaaca	180
catattatat	cctgggtttc	tctatccttg	cattactaag	gtgactgtct	ctctttatac	240
atccttgtat	ggttctccca	gtattagcaa	gattgtatat	ctgtaaagaa	tgtccagttt	300
tgtaaatatt	tccctgcctt	tttttttctt	tttttacatc	tgattttaat	gcttcgttaa	360
cttcaaaagg	aactggtaga	gttcagaagg	tgagctgttg	tttttctaaa	cctcttccca	420
ggaaggggac	attgacactt	gaatttttgt	cacttttttc	ctcattagaa	ggaaagtaga	480
aagccttact	gtaggatttt	taaaaaaaa	tccatctcac	cccatattgg	tcttaaataa	540
gtatagacta	attaacctaa	gctaccttta	acaacgtaga	atttaanatg	ggttcatata	600
tgtgagaaaa	acctgaatat	aggacagggg	tcctactttt	ttccccacct	ctgtcgccca	660
ggctagagta	ntaantgggtg	gatcttgccc	cactgcaacc	tctgcttcta	gggtcaagtg	720
attctcctgc	tcagcctncc	aagtancccg	ggaattggaa	gagtatgcc	ccacgccag	780
ctactttttg	gaatttttagt	nnaaaacagg	ttcatcatgn	tggncccnga	agggcnctta	840
antctgncc	ttnagngatc	cccccnana	ngaaacntg	gncnncccaa	nnnnncggnn	900
tntagcnnnn	ccnccnggcc	cannctactt	tnnnaannnn	nnnnnnnnnn	nnnnnnnnnn	960
nnnnnnnnna	nnngnncnnn	nccngnnngn	ccnnnnnnng	gnaantc		1007

<210> 107

<211> 1024

<212> DNA

<213> Homo Sapien

<220>

<221> misc\_feature

<222> (1) ... (1024)

<223> n = A,T,C or G

<400> 107

gnagnnnnnn	nngattgggc	cctctagatg	catgctcgag	cggccgccag	tgtgatggat	60
atctgcagaa	ttcgccctta	gcccgcgcc	gggcaggtac	tttttttttt	tttttttttt	120
tttttttttt	aattaattag	aaagtaggct	gggcacggng	gctcatgcct	ataatcccag	180
cacttgggga	ggccgaggat	ctcctctctg	gnggatcact	tgagggcagg	agttaagaga	240
ccatcctggc	caacatgatg	aaaccctgtc	tctactaaaa	atacaaaaag	tagctgggcg	300
tggtggcata	ctcttacaat	cccggctact	tgggaggctg	aggcaggana	atcacttgaa	360
cctaggaagc	agaggttgca	gtgggccaa	atcacaccac	tatactctag	cctgggcgac	420
agaggtgggg	aaaaaagtag	gaccctgtc	ctatattcag	gttttttctc	catatatgaa	480
cccactctaa	ttctacgttg	ttaaaggtag	cttaggttaa	ttagtctata	cttattttaag	540
accaatatgg	ggtganatgg	attttttttt	aaaaatccta	cagtaaggct	ttctactttc	600
cttctaata	ggaaaaagg	gacaaaaatt	caagtgtcaa	tgcccccttc	ttggggaaga	660
ggtttagaaa	aacaacagct	caccttntga	actttttacca	gttccttttt	gagttaaccg	720
aagcnnntaa	aatcagatgt	aaaaaangaa	aaaaaaaggc	cgggaaattt	ttaccaaaact	780
nggacattct	ttacagatat	acaatcttgc	taaaacctgg	gaaaaccttt	cccngggtgt	840
ttaaagggga	aacagtcctc	cttataatgc	ccggggttna	gaaaancccg	gatttttnaa	900
aaaggggttt	tattgcccga	aactggggga	accttngggg	ggncccaaaa	nnaacctgan	960
cccctgaagg	naccgggttn	annnnntttt	tgggaccttg	gccgggaacc	ccctttnggg	1020
ggna						1024

<210> 108

<211> 470

<212> DNA

<213> Homo Sapien

<220>

<221> misc\_feature

<222> (1) ... (470)

<223> n = A,T,C or G

<400> 108

```

actatgacca tgattacgcc aagcttggtta ccgagctcgg atccactagt aacggccgcc      60
agtggtgctgg aattcgccct ttcgagcggc cgcccgggca ggtactattt tttttttttt    120
ttttcgtgtn tttgacattc cttgaatctg ttttttatcc ccctccaca gaacaggcct      180
gggactttcc aacacctgc taaggaagt ctgtgtccaa gtcccaccca ggctgggttg      240
tccccacctn ctncagccca cacagcccag gcagcatccg ggccagtgcc ctgcatgaca      300
nagggctctt gttgtgtaat gnttgttccc aagttgcatt ttctaaccga atcagtggtg      360
tttcatgaaa ctgagtggtta ctgtggacca gtaagtttct ctgtgtctt cagtgggtct      420
cctgtgtggc tcaagggttc tctgtgagag tctggatttt catttctggg      470

```

```

<210> 109
<211> 808
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1)...(808)
<223> n = A,T,C or G

```

```

<400> 109
gggcctctag angcatgctc gacggccgcc atgtgatgga tatctgcaga attcgccctt      60
agcgtgggtcg cgcccgagggt acaagtctgc ctaagagaca gaagtggatn ttataatcta    120
cttgccatt cctccagca gagaagcagc aggtagatat ggcattgcact gtgcctgctg      180
ctgctgctct tgtggcgaac actcagatgt ggaaccatag agggaccttg aggagctggg      240
acatgattct ttagagaaga gaagagacgg ggagcacagc atgagaatgg ccagtcaacc      300
catttcaaatt tcttttatta aagtgtcccc cgaggggcct tgcacaaaga tgatggggag      360
agcagaactg ctgctccttg acagaactct gatccttaca ctttgtttgg agtgggcttg      420
gggacagtca caagccatga aacatgaatc caaaatgggtc ccagatgag ccattggtgaa      480
ccaacagatg caagcaactt cttaaactgc tctattaaac actgctttat atgtgtcccc      540
atgatacaga aaagtgggat ggggccagcc attccagaaa tgaaaatcca gactctcaca      600
gagaaccctt gagccacaca ggaagaccac tgaagacaac agaggaaacta ctgggtccaca      660
gaaacactca gtttcatgaa aacacactga ttcgggtaga aaatgcaact tgggaacaaa      720
cattacacaa caaagacctt ctgtcatgca gggcactggc ccggatgctg ctgggctgtg      780
tgggctggaa gangtgggga caaccac      808

```

```

<210> 110
<211> 471
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1)...(471)
<223> n = A,T,C or G

```

```

<400> 110
actatgacca tgattacgcc aagcttggtta ccgagctcgg atccactagt aacggccgcc      60
cagtgtgctg gaattcgccc tttcgagcgg cgcccgggca aggtacagcg acgtgatgat      120
gtagaggcgc ttcccatcca ggctgagctg gatcatctga gggcctncag ccaccgctt      180
tcccttgacc actaggggct ctggctggga ctttagttcc tcgtcctcca gcacttgca      240
agggcctccc ttaacaatgc tgcctccgag gaagagctgt cctgtgaggg ggggtctctg      300
tgggtcagag atgtcatact gcctcaggtc ccatgcagc cagttgctga agtagaggaa      360
gcggtcgtcc agggagagca ggatgtcggg gatcaggcct ggcatttcgg gcagcagcca      420
gcccttcaact ttcttggggg gcacctggat caccttctcc actgacctg t      471

```

```

<210> 111
<211> 468
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature

```



&lt;222&gt; (1) ... (468)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 111

actatgacca	tgattacgcc	aagcttggtg	ccgagctcgg	atccctagta	acggccgcca	60
gtgtgctgga	attcgccctt	agcgtggctg	cggccgaggt	actnnntnc	ttntttaca	120
tctgatttta	atgcttcggt	aacttcaaaa	ggaactggta	gagttcanaa	ggtgagctgt	180
tgttttntcta	aacctnttcc	caggaagggg	acattgacac	ttgaattttt	gtcacctttt	240
tcctcattag	aaggaaagta	naaagcctta	ctgtaggatt	tttaaaaaaa	aatccatctc	300
accccatatt	ggtcttaaat	aagtatagac	taattaacct	aagctacctt	taacaacgta	360
gaatttagat	gggttcatat	atgtgagaaa	agcctgaata	tangacaggg	gtcctacttt	420
tttccccacc	tctgtcgcgc	aggctggagt	atagtgggtg	gatcttng		468

&lt;210&gt; 112

&lt;211&gt; 813

&lt;212&gt; DNA

&lt;213&gt; Homo Sapien

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1) ... (813)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 112

attgggcctc	tnnagcatgc	tcgacggccg	ccatgtgatg	gatatctgca	gaattogccc	60
tttcgagcgg	ccgcccgggc	aggtaccatg	ctgacttctt	ggtatctttt	anggcctaata	120
tttcccttcc	ttgagattac	tgtagtgtgt	tccagctaata	ttctatttgg	aaacgagttg	180
gaacagctga	aaactaggta	ttattgaagg	caaagcagcc	tcacgtcagt	tttttatcag	240
ctcatttggg	aagttttntt	ttttttntn	ttaattaatt	agaaagtagg	ctgggcacgg	300
nggctcatgc	ctataatccc	agcacttggg	gaggccgagg	atctcctctc	tggtggatca	360
cttgagggca	ggagttaaga	gaccatcctg	gccaacatga	tgaaaccctg	tctctactaa	420
aaatacaaaa	agtagctggg	cgtgggtggc	tactcttaca	atcccagcta	cttggggaggc	480
tgaggcagga	gaatcacttg	aaccaggaa	gcagagggtg	cagtgggcca	agatcacacc	540
actatactcc	agcctggggc	acagagggtg	ggaaaaaagt	nagaccctcg	tcctatatcc	600
aggctttgct	cacatatatg	aacctatcta	aattctacgt	tgtaaagggt	agcttaggtt	660
aattagncta	tacttattta	agaccaatat	ggggtganat	ggattttttt	ttaaaaaatnc	720
tacagtaagg	ctttctactt	tccttctaata	gaggaaaang	gtgacaaaaa	ttcaagtgtc	780
natgccccct	cctgggggaag	agggttaaaa	aat			813

&lt;210&gt; 113

&lt;211&gt; 506

&lt;212&gt; DNA

&lt;213&gt; Homo Sapien

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1) ... (506)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 113

nccaaacttg	taccganctc	ggatccctag	taacggcana	cattganctg	atacgccaaag	60
cttggtaccg	agctcggatc	cactagtaac	ggncgccagt	gtgctggaat	tcgcccttcg	120
agcggccgcc	cgggcaggta	cgcggggcct	ctggcgctac	catggcgttt	ggcaagagtc	180
accgggatcc	ctacgcgacc	tcctgtgggc	acctcataga	aaaggctaca	tttgctggag	240
ttcagactga	agattggggc	cagttcatgc	acatctgtga	cataattaac	actaccagg	300
atggggccaaa	agatgcagtg	aaagctttga	agaaaangat	ttncaaaaac	tacaatcata	360
aagaaatcca	acttaccttg	tcacttattg	acatgtgtgt	gcagaactgt	ggtccaagtt	420
tcagtcctct	gattgtgaag	aaggaaattg	ttaaagagaa	tttagttaag	ctactgaatc	480
ccagatacaa	cttgccatta	gacatt				506

&lt;210&gt; 114

&lt;211&gt; 813

&lt;212&gt; DNA

&lt;213&gt; Homo Sapien

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(813)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 114

ggggcccntnn	agctgctcga	gcggccgccca	gtgtgatgga	tatctgcaga	attcgccctt	60
agcgtggtcg	cgcccgaggt	acaacttatt	ctaaatattt	tcattttctg	tgttctaaat	120
agaaatatta	agttgcagta	aaaagagaaa	aaaaggctat	ttagcattac	aaagaatcat	180
atttaaaggc	tgcccaatgt	agagtctagt	gacctgttca	ggacacctga	aataataatta	240
aatgacaatt	atcaagggtt	taacaattta	taattctaaa	ccagaggatt	ataaagaagt	300
gcaaattgac	ttttacattc	aacttttagt	aaatgaaggc	actcagtatt	cttcctgaat	360
aatacattca	gtttctcaca	ttttatgctt	tcattctattc	agaattattt	catagtaaaa	420
taatctactc	ttatcacagc	tgtgtgacga	tttctaaatg	taggaaggcc	tgtgaaacat	480
gacactgcag	ttaaattggg	tggcctaagg	actaagtaat	ttttcttctg	ctgaagtttt	540
aagttagtat	ttgttccaaa	caagttctgt	tgaaatctca	cgctggtgtc	aggaatcagt	600
gttatcctgg	aactgttatt	ctatttaatc	ttcattatag	cagaaatgtg	ccaccatggc	660
tttgacatgt	tggtaggtat	tgtcttcag	gcttcaaagc	tgcacagagt	ctacgtttta	720
gagagttggc	acctttgatg	tggtagttag	ctgatcatnc	actttcttct	cagtcaccat	780
cattttgagc	tcctttgtgc	tggtgagcat	can			813

&lt;210&gt; 115

&lt;211&gt; 471

&lt;212&gt; DNA

&lt;213&gt; Homo Sapien

&lt;400&gt; 115

accagctatg	acctgattac	gccaaagcttg	gtaccgagct	cggatccact	agtaacggcc	60
gccagtgtgc	tggaattcgc	ccttagcgtg	gtcgcggccg	aggtaacctg	attttgtgtt	120
caggaaacaa	agaacatgaa	atattacatt	cttcagaatg	tttttcttgt	gccattaaat	180
gaatcaagta	aatgaggcaa	tgaggcacaa	ataagggaatt	tagatttcag	caatattttg	240
atccactgta	gctttcagtt	tctgaaactt	tggaaaggcc	tacatacttt	gtaagaattt	300
ttggcttata	ttgttaataa	tcaacagagc	caagaaaaca	tttcttagaa	tgttcaaaga	360
caccacctta	gccttccttc	cctgcagcta	taacattatt	tttctaagag	aaaaggcaga	420
gagtcttcac	aaagccatac	cagacttaaa	attaccagag	aacattttgg	t	471

&lt;210&gt; 116

&lt;211&gt; 818

&lt;212&gt; DNA

&lt;213&gt; Homo Sapien

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(818)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 116

ttncannngg	ccctagagc	atgctcgacg	gccgccatgt	gatggatata	tgcagaattc	60
gccctttcga	gcggccgccc	gggcaggtac	tttttttttt	tttttttttt	tttttttgtg	120
tgtggtcttg	aactcctggc	ctcaaattgat	cttcctgcct	cagcctccca	aagtcctggg	180
attactggca	tgagtcacca	cacctggctc	attctttttc	ttaatatggc	tctaaatggc	240
tttttatatt	ttttgctttg	gcaatttatt	tctaggaaat	taaataattc	tttcattata	300
atcaagggaa	tgaaagactt	caggaggtcc	atagtggagt	tcaaaacccat	atggagttca	360
ctattctaca	agattataca	ggcaataata	taagtattct	aagggtgttt	aggtagattt	420
atagatgtta	gatttcaaaa	tggtttaata	agtgtttatg	aatttccaag	gtgtatcact	480
aacttctcaa	gatgaaatca	tatatagaaa	ctatcaaaat	tttcttgttt	ctgtgtgcaa	540
gaaatgaata	atataactgt	atataactgt	aactcacatc	taaagggata	gtgcttgaat	600
aagctaattt	acaatgagtt	caagggtatta	ttttaaaatt	cttattgncc	ttagacaata	660
attatgccaa	caaatgtgaa	aaatattaaa	tctccttctg	ntaatttttc	cagttttatt	720

accctaaagt cacacaggta atgcaagtca tgaataaat caaatgagcc cttcctggag 780  
agcctacttt atttaccttg ggaaaatgga tgacatnt 818

<210> 117

<211> 467

<212> DNA

<213> Homo Sapien

<220>

<221> misc\_feature

<222> (1)...(467)

<223> n = A,T,C or G

<400> 117

accactatga cctgattacg ccaagcttgg taccgagctc ggatccacta gtaacggccg 60  
ccagtgtgct ggaattcgcc ctttcgagcg gccgcccggg caggtactac tggttttctc 120  
cctggcttca cgtgtctctg tggtccccta tgctgggggtg tcctcccagt gctttcaggc 180  
ttcatctcct tcctaaccctc tcctttctat tttttttttt ttttttgaga tggagtcttg 240  
ctcagtcgcc cangtggag tgctaaccctc tcctttcatg tggagatgga cagggatggc 300  
aggagcactg agtgctcttg acaacacccat tgaagatgat gctgacgac agctaccctg 360  
tggagaaggc aggccaggct ggggtgagagg ggagctcctt ggaagtcagg gggctctgtaa 420  
ggacagcaag gatctctttg tcccaaccctc cagcagcctt tatgggt 467

<210> 118

<211> 815

<212> DNA

<213> Homo Sapien

<220>

<221> misc\_feature

<222> (1)...(815)

<223> n = A,T,C or G

<400> 118

gggcctctna agcatgctcg acggcccgcca tgtgatggat atctgcagaa ttcgccctta 60  
gcgtggctcg ggcgaggta cctggggtct caggggtgct ctgggcctga tcatccactc 120  
agatctgtaa ggaggatttg caggatccat tttagaaagat cctcccttac ttccacaagc 180  
atggcctttg gctcttaaat acctgtgctg ggggttttga attatagaaa caacaggaac 240  
caaaactcat taatgttgag ctacaaacca gaggggaagct tctttctcaa aacagggctc 300  
aggcctagaa aaatctagtt ttctgaaatc gctagccagc aacagcactg agatggccat 360  
cccagaaaca aggcccaacac agaagcacc ataaaggctg ctggaggttg ggacaaagag 420  
atccttgctg tccttacaga cccctgact tccaaggagc tcccctctca cccagcctgg 480  
cctgccttct ccacagggtg gctgatcgtc agcatcatct tcaatggtgt tgtcaagagc 540  
actcagtgtc cctgccatcc ctgtccatct ccacatgaaa ggagagggtta gcactccagc 600  
ctgggcgact gagcaagact ccatctcaaa aaaaaaaaaa aaaatagaaa ggagagggtta 660  
ggaaggagat gaagcctgaa agcactggga ggacacccca gcatagggga acacagagac 720  
acgtgaagcc agggagaaaa ccagtagtac ctgcccggcg gccgntcgaa agggcgaatt 780  
ccagcacact ggcgggccgt tactagtgga tccct 815

<210> 119

<211> 811

<212> DNA

<213> Homo Sapien

<220>

<221> misc\_feature

<222> (1)...(811)

<223> n = A,T,C or G

<400> 119

gggcctctnn agctgctcga cggccgccat gtgatggata tctgcagaat tcgcccttag 60  
cgtggctcgc gccgaggtag tctatttttt gcttgatga ttgatgggtc ttccattatc 120

```

tgtgattgac attctatgag taggtgcttt tgctttgcct ataagtcggtt attatgaagg      180
aggaatggtg aataagaagg taatttagaa aagcctatat taaatatacc atgaacattg      240
aatatagcaa gatcttattc tctagttgtt atcttagttg ataaattctg tatgtgttat      300
gtgtttgtgt atacatatgt acttaatctg atcgggtatct aaaagaagga aaggatggtc      360
aggaacacatt tatcataaat gtagccaagg atatcaatta gggtagacaa gaataggaca      420
aaaaataggcc agagctcctg aggaggtgat atgggtccct tgatttgagc aaaatgacag      480
cctatccaag tggcccagtg tatgcctccc agtagcagtg ggcattgtaa ctgcagcgac      540
cttattttta aaacaaaaaa cctagtatgt ggacaaagaa catgacaata tttggtacct      600
gcccgggagg cgcctcgaaa gggcgaattc cagcacactg gcggccgtta ctagtggatc      660
cgagctcggt ccaagcttgg cgtaatcatg gtcatagctg gttcctgtgt gaaattggta      720
tcccgcctcac aattnccaca cacatacga cccggaagca ttaaagtgtg aaagcctggg      780
gtgcctaattg aagtgaagcta ctcacattaa a

```

&lt;210&gt; 120

&lt;211&gt; 466

&lt;212&gt; DNA

&lt;213&gt; Homo Sapien

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(466)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 120

```

anttgacctg attacgcaa gcttgggtacc gagctcggat ccactagtaa cggccgccag      60
tgtgctggaa ttgcgccctt cgagcggccg cccgggcagg tacccacgtt ttgctccaca      120
ctccttgacc acaggggctc ggacacaaac ccctgtcacc aggagagtca gtcagcacta      180
cttgggaggg ctaaaggga atttggaaat aaaattccaa agtttgaggt aaaaaaattc      240
aagtgttgat tttatattct ttccctttct gacacagcct aaagcgtagg gggaacatgt      300
gtttatctgt gggagataaa caagatggag tcccaaagac ttttaacaaa ttttttttta      360
aaaatccact agaatagaat atacattatt tagatatact ttatgctgag agtgagtata      420
tatgcttgct ctatttaaac ttgtgagaaa aagtgggtatc ccttng

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&lt;210&gt; 121

&lt;211&gt; 812

&lt;212&gt; DNA

&lt;213&gt; Homo Sapien

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(812)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 121

```

ttgggcccnt nnagcatgct cgagcggccg ccagtgtgat ggatatctgc agaattcgcc      60
cttagcgtgg tcgcggccga ggtacaactc tccagggcac aatacgttta cagctgcctt      120
tccttcacat acttttctaa ttcagaacta ctcacaattc taagcaaatt cccattcacg      180
aagtctgtcc ataatgcgac cttctctttt ttttaacatat acatcttaaa aaacaaatat      240
ataaaaaaatt cttattttgc tggaatgctt tcaatttttc acattttaca tgatcatcac      300
atattttct tatattgaaa ggcattggtt ctgttgacat gtcgtgcaaa gccaaaaaaa      360
aaaaaaaaaa aaagggtggt attgcttttc aattgggtct acacttttcc ttgtctaggc      420
tttgattttt aaagtccatg acagccccac caccagtaga aaccccaagg cttgcatttc      480
ctggtaatcg actggaaacg tcccctgttg gccatgctaa gattccttca acaggggtcat      540
cctgcattta ttctccttct gccccacccc cacaatgaaa caagatagcc cccatatttc      600
taaagtgtatc aagggtatcc actttttctc acaagttaa ataggacaag catatatact      660
cactctcagc ataaagtata tctaaataat gtattttcta ttctagnnga tttttaaaaa      720
aatattttgg taaagtcttt ggggactcca tcttggttat cttccacaga taaaccatgt      780
tccccctacg ctttaggctg tggtcagaaa gg

```

&lt;210&gt; 122

&lt;211&gt; 467

&lt;212&gt; DNA

&lt;213&gt; Homo Sapien

&lt;400&gt; 122

actatgacca	tgattacgcc	aagcttggtg	ccgagctcgg	atccactagt	aacggccgcc	60
agtgtgctgg	aattcgccct	tagcgtggtc	gcggccgagg	taccatgctg	acttcttggt	120
atcttttaag	gcctaatttt	cccttccttg	agattactgt	agtgtgttcc	agctaatttc	180
tatttggaag	cgagttggaa	cagctgaaaa	ctaggtatta	ttgaaggcaa	agcagcctca	240
cgtcagtttt	ttatcagctc	atttggggaag	tttttttttt	tttttttttt	ttttaattaa	300
ttagaaagta	ggctgggcac	ggtgggtcat	gcctataatc	ccagcacttg	gggaggccga	360
ggatctcctc	tctggtggat	cacttgaggg	caggagttaa	gagaccatcc	tgccaacat	420
gatgaaaccc	tgtctctact	aaaaatacaa	aaagtagctg	ggcgtgg		467

&lt;210&gt; 123

&lt;211&gt; 864

&lt;212&gt; DNA

&lt;213&gt; Homo Sapien

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1) ... (864)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 123

gggcctctng	agcatgctcg	agcggccgcc	atgtgatgga	tatctgcaga	attcgccctt	60
tcgagcggcc	gcccgggcag	gtactttttt	tttttttttt	tcttttttta	catctgattt	120
taatgcttcg	taacttcaa	aaggaactgg	tagagttcag	aagggtgagct	gttgtttttc	180
taaacctctt	cccaggaagg	ggacattgac	acttgaattt	ttgtcacctt	tttctcatt	240
agaaggaaag	tagaaagcct	tactgtagga	tttttaaaaa	aaaaatccat	ctcaccctcat	300
attggtctta	aataagtata	gactaattaa	cctaagctac	ctttaacaac	gtagaattta	360
gatgggttca	tatatgtgag	aaaaacctga	atataggaca	ggggtcctac	ttttttcccc	420
acctctgtcg	cccaggctag	agtatagtgg	tgtgatcttg	gcccactgca	acctctgctt	480
cctaggttca	agtgattctc	ctgcctcagc	ctcccaagta	gctgggattg	taagagtatg	540
ccaccacgcc	cagctacttt	ttgnattttt	agtagagaca	gggtttcatc	atgttgacca	600
ggatggntct	ttaactctcg	ccctcaagtg	gateccaccag	agaaggagat	cccttggntct	660
tcccacagtg	cctggggatt	attaggcatt	gaagcccacc	cgtggcccca	agccctacnt	720
tttcttaaat	taaattttaa	aaaaaanaaa	nnnnnnnnnn	nnaaaaaaa	ccttttcccc	780
aaattgganc	ctgggtttta	aaaaacctgg	acccttnaan	gggcntggnt	tttgccctt	840
tnaaataaat	tncccctaag	gnnt				864

&lt;210&gt; 124

&lt;211&gt; 467

&lt;212&gt; DNA

&lt;213&gt; Homo Sapien

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1) ... (467)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 124

antatgacct	gattacgcca	agcttggtac	cgagctcgga	tccactagta	acggccgccca	60
gtgtgctgga	attcgccctt	tcgagcggcc	gcccgggcag	gtacatgcac	acacacacac	120
acacacacac	acgtgtctac	tgggtcctt	ttggattttt	tagttcaatc	agaaatcacc	180
aaacagatca	ataaagaggc	aatgttaaat	gaccgggaaa	ttggtaatgt	gacatcacaa	240
cactgccttt	aagggtgcat	atctaaatcc	aggtagcact	gctgctagca	gaatctgttg	300
ttttaggaga	caagggtggg	ctgggtatgc	tggctcgtgc	ctataattcc	agcactttga	360
gagggcaagg	caggagaacc	acattaggct	aggagtttan	gaccagcctg	ggcaacatag	420
tgagatccca	tctctacaaa	aataaaaaaa	ttagctttcc	agctgct		467

&lt;210&gt; 125

&lt;211&gt; 833

&lt;212&gt; DNA

<213> Homo Sapien

<220>

<221> misc\_feature

<222> (1)...(833)

<223> n = A,T,C or G

<400> 125

gnnnnnnnnnn	ngnnntnnnn	ntttaataga	tgagcgtacg	gngcctgtaa	agcatgctcg	60
agcggccgcc	atgtgatgga	tatctgcaga	attcgccctt	agcgtgggtcg	cgcccgaggt	120
acctgatatc	gtttaacttt	cctctttatc	tttcttagag	atacttcaca	tgtgggacag	180
attatatatt	ggaaagatgt	ccacaacaat	attgcccac	ccacattgct	catcttacia	240
tgtgatctca	agactcctcc	cactgagtg	gtgagaaggg	acttatacca	ctttcatttg	300
aatctaggca	gatctgtgtg	acagccttga	ccaatagagt	atgggttaaag	tgatgcccc	360
aggcatggg	gcccatacct	ggaatcctgg	tttttcggg	aggcccaggt	gggggtagag	420
gtgaggggga	tgattgtttg	aacacacag	tttgagacta	ccctgagcaa	cacaatgaga	480
ccctattttt	ttttaatgat	ttctgaagca	gaatcacaaa	tagccgtgcg	ttttttctt	540
gcgcttttag	gatacttact	tttaaaaccc	agtcaccata	ttgttaggaa	gcccacacag	600
cacacataga	gagacatacg	gagaagccaa	ccatagaggt	tcctgttgac	agtcantcg	660
aggtcttaac	caacagtcac	acttagctgc	cagccatatg	agtgaagggc	ttncagatga	720
ttctaaagcc	cagcagttgg	gtccccccag	cctgtaagcc	ttcccagctg	aggcctnaca	780
atgatggagc	anagaaaagt	gtccctgtcc	aaattctgac	ccatgataaa	atg	833

<210> 126

<211> 788

<212> DNA

<213> Homo Sapien

<220>

<221> misc\_feature

<222> (1)...(788)

<223> n = A,T,C or G

<400> 126

nnnnnnntnn	nnacanttga	ctgataccca	acttgggtacc	gactcggatc	cactagtaac	60
ggccgccagt	gtgctggaat	tcgccccttag	cgtgggtcg	gccgaggtac	gcgggggagc	120
agagagaagc	gaggttctcg	ttctgaggga	caggctcgag	atcggtgaa	gagagcgggc	180
ccaggctctg	tgaggaggca	agggaggtga	gaaccttgct	ctcagagggg	gactcaagtc	240
aacacaggga	acccctcttt	tctacagaca	cagtgggtcg	caggatctga	caagagtcca	300
ggttctcagg	ggacaggag	agcaagaggt	caagagctgt	gggacaccac	agagcagcac	360
tgaaggagaa	gacctgcctg	tgggtcccca	tcgcccaggt	cctgcccaca	ctcccacctg	420
ctaccctgat	cagagtcac	atgcctcgag	ctccaaagcg	tcagcgtg	atgcctgaag	480
aagatcttca	atcccaaagt	gagacacagg	gcctcgagg	tgacagggct	cccctggctg	540
tggaggagga	tgtttcatca	tccactttca	ccagctctc	ttttccatcc	tcttttctt	600
ctccttctnt	ttctnctnct	nctnctgcat	ctntaatacc	aagcacccca	naggaggttt	660
ctgctgatga	tgagacaccc	aaatncttcc	anagtgtcna	anatagcctg	ntncttcccc	720
cttnggnct	gctttccctt	nenttanatt	naatnctgat	taaggggttc	cancanncca	780
aaaggaat						788

<210> 127

<211> 766

<212> DNA

<213> Homo Sapien

<220>

<221> misc\_feature

<222> (1)...(766)

<223> n = A,T,C or G

<400> 127

gggcctctna	agcatgctcg	acggccgccca	tgtgatggat	atctgcagaa	ttcgcccttt	60
cgagcggccg	cccgggcagg	tactccaggt	agttttctg	caaccaatct	tgggtgagca	120

gcttcctggg	ctccccataa	atgaggtgct	ccatcccatc	atacagcccc	atcatattca	180
gtgcttccca	gatgacctcc	tcaggggtgc	agtagccctc	tatgaagatt	atgcttagga	240
taagtatgag	aatgccagtc	ttgggcatgc	tctggacatc	actcagcatc	ccatcatagg	300
tgaggcccag	ggaggtgaca	aggacaaagg	agtggccagt	gggatccact	tcctttacat	360
caatgccaaa	gaccagcagc	atgcactcgg	aggcttcact	aaacaacaaa	gggaagtggg	420
cttcataatt	ttttatgaca	ctctccagta	tttctgcctt	tgtgatcggc	tccttcattt	480
gatacttgaa	gagcagaaac	tgcaccaaat	cagtcacctt	ttcatctatc	tcacttctgg	540
gtaaagactc	actgtctggc	aggacctgta	gggtgcttgg	actctcctcc	ttttggtgct	600
tggagccctc	atcagattga	tctaattgga	gggaagcaac	gaccganggg	gaggagcagg	660
ctatctgagc	actctgggga	ggatttgggt	tctcatcatc	agcagaaacc	tnctctgggg	720
tgcttggtga	ttagangatg	gcaggaagaa	gaagangaag	aggaag		766

&lt;210&gt; 128

&lt;211&gt; 779

&lt;212&gt; DNA

&lt;213&gt; Homo Sapien

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(779)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 128

gnnnnntnnn	nacactantt	tnngacccgn	canctggtag	cgactcggac	cactagtaac	60
ggcgcgcagt	gtgctggaat	tcgccccttc	gagcggcccg	cccgggcagg	tactcctcat	120
cctgcgtttg	gtctccaggt	gtcgcctttc	tgccgtgttc	ctaataattt	gattcctgtc	180
ttgaaaaaag	cacctgctgc	acagtaagcc	cagggatgtg	gcagctgcag	cgggcttggc	240
tttgtgagga	accgggtgtg	tccacgttgg	gggaacatca	tacttgatac	acacgttttt	300
atttgcacaa	agaaaatgct	atttttggag	ccagaatttt	catgtctgat	ttatggtgat	360
tttcttaaga	accagaactg	ctggcagaaa	gggggcaccc	acacgcttag	atagccgatg	420
tcttattaga	gggcagtttg	tggttctctga	tttggaattt	aatattctcc	aaacattcca	480
gtccaatgaa	agtttttatcc	gctttcccat	gtaaaaattc	ttcccatgag	agtgacttga	540
tcttcacaa	ccggttgaag	tcgtgtgtga	gtcctacagt	attaggttca	gcattgccgt	600
ctncaagtgc	tctttgtagg	gaaacagttt	ctggtcatga	caagcttcca	cttccatctg	660
atcctggcct	ggcctggaaa	cagagcacat	gtgtttgagg	atggcngtgt	ttggggacag	720
gacatgancg	tattgtgtgg	ggctgctagg	acangcgtgg	tgtggtgggg	gantgtccn	779

&lt;210&gt; 129

&lt;211&gt; 774

&lt;212&gt; DNA

&lt;213&gt; Homo Sapien

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(774)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 129

ttnnnantgg	gcccntngag	catgctcgac	ggccgccatg	tgatggatat	ctgcagaatt	60
cgcccttagc	gtggtcgcg	ccgaggtacc	tgggtgggac	tgggaaactg	tgaaacaagt	120
agactgactt	ggacactccc	ccaccacacc	acgcctgtcc	tagcagcccc	acacaatacg	180
ctcatgtcct	gtcccccac	accgccatcc	tcaaacacat	gtgctctgtt	tccaggccag	240
gccaggatca	gatgggaagt	ggaagcttgt	catgaccaga	aactgtttcc	ctacaaagag	300
cacttgagga	cggcaatgct	gaaccttaata	ctgtaggact	cacacacgac	ttcaacggga	360
ttgtgaggat	caagtcactc	tcatgggaag	aatttttaca	tgggaaagcg	gataaaactt	420
tcattggact	ggaatgtttg	gagaatatta	atttccaaat	cagggaaccac	aaactgccct	480
ctaataagac	atcggtatc	taagcgtgtg	ggtgccccct	ttctgccagc	agttctgggt	540
cttaagaaaa	tcaccataaa	tcagacatga	aaattctggc	tcacaaaaata	gcattttcct	600
tgtgcaataa	aaaacgtgtg	tatcaagtat	gatgttcccc	caacgtggac	acaccccggt	660
tcctnacaaa	gccagccccg	ctgcagctgc	cacattctctg	ggcttactgt	gcacangtgc	720
tttttttaag	acaggatcaa	atnttaggac	ccngnanaan	gcaacacctg	gaga	774

<210> 130  
<211> 803  
<212> DNA  
<213> Homo Sapien

<220>  
<221> misc\_feature  
<222> (1)...(803)  
<223> n = A,T,C or G

<400> 130  
ggnnnnntnn anacgnatcn gacctganta cgccaacttg gtaccgagct cggatccact 60  
agtaacggcc cgccagtgtg ctggaattcg cccttagcgt ggtcgcgcc cgaggtacct 120  
tggaagttat gtcattaata taggctgggt cgtcaaataa agcaaacct tgcaatatca 180  
gctagattta cactccggga cgttgcccaa aggtaggaag aaagcagagg gaaatatctc 240  
agtcattcatt tccaaagtca ttatcaaaat ctgtgaggaa gtttaattctt ccaaagagtc 300  
aatgtcagac atcaggcctc tgttgctgc ttctctcgag gcactagatt aggagctctc 360  
aataagagac ttaacatgag gtatatggaa gatgaggcac cgagataagt tcatcattag 420  
gtgtgagcac tgctcacctc tgctggcaag ttctccttaa ggcctgaag cacaggtgtc 480  
caaagaaaaag cgttaagtcc atcttaatag aatctatgtg gtatatgatg tggtcagccc 540  
ccggtctgtg atcagcaaga acctacagca cagattatgc cctgccact tcaatgaata 600  
cctactctcc tncattctcc atcacttttt ttgctatcaa gactccggac cttgcccatg 660  
gagaagttta gagaggaact cttgtggaga gctgggttat tttctgccct gtgcgacgag 720  
tttcagcttg gccaaagaaa ggagtcaagg ttattaaaaa gcatcacaat ggtagatctt 780  
ccaggcttgg nttttttgt ttt 803

<210> 131  
<211> 818  
<212> DNA  
<213> Homo Sapien

<220>  
<221> misc\_feature  
<222> (1)...(818)  
<223> n = A,T,C or G

<400> 131  
antgggcctc tnnagcatgc tegacggccg ccatgtgatg gatatctgca gaattcgccc 60  
ttngcccgtc ttccagncgg gaaacctgtc ntgccagntg cattaatgaa tcngccaacg 120  
cgcgnggaga ggcggnntgc gtattgggag ctcttcgctc tcctcgctca ctgactcgct 180  
gcgctcgccg gttcngctgc ggcgagcggc atcagctcac tcaaaggcgg taatacngtt 240  
atccacagat caggggatan cggcaggaaa gaacatgtga ncaaaaggcc agcaaaaggc 300  
caggaaccga aaaaaggccg ctttgttggc gtntnaccat aggctcnncc cccttgacna 360  
gcttcacaaa aatctacgct cagntcccag gtgcnaaatc ccganaggac tntaangatt 420  
cnnngnnttt ccccttgaan nctncctant gcgctctcct gtnccaacct tgccgtttac 480  
cgataacctg nccgcctnna tnccttcgng aagcntggct tttnaatngg ctcaactttt 540  
gggnatctaa aancggnnta ggcngnncgt tnnaaantng nntttttgcn caaacccctt 600  
gtttaaactn acccatngc attatcccgg aaacttttgg tnttngaate caaccnggna 660  
aanacacnan ttaatnngcc nttggcntga aaccacttgg ggtnaaccat ggattttggc 720  
ncnaccnagg gtnnttttnn ngcnggtnc ntaccggag ttctttnaaa acngggtggg 780  
cncttanacc tatcnggnnt tcccctttan aaaaaaat 818

<210> 132  
<211> 777  
<212> DNA  
<213> Homo Sapien

<220>  
<221> misc\_feature  
<222> (1)...(777)  
<223> n = A,T,C or G



<400> 132  
 acnntatgac ntgantaccc aacttgggtac cgactcggac cactagtaac ggccgcccgt 60  
 gtgctggaat tcgcccctcg gcccgcccgg gcaggtacct ggaaaataac ttctttcttt 120  
 tcctctagat ttctgaagaa gcaataaat caagaataga aacctatata taggaggttg 180  
 ggccctctgc aaagaatgaa gcactttttg ttaaatacag gagaggctac ttggctgcac 240  
 taatatgtgc tttttggaat cttatagagt gtcaccaagt tgaactttgg aatggcttga 300  
 atcatccctg gagcatctgt gccgggcagt caggagttag tgcaccgctt cccaccagc 360  
 cccattgggc ctcacaccct cttcattcct ttcccatga ggcaggcaaa caccggtcatg 420  
 accatttttg ggttcacttc aaccagggtct tctggcaggg catacactct tgctccaatt 480  
 tttcgggcca tagagatggc atattttgca ttgttgagtt tctcatcatc attcagattt 540  
 tctgtcttca gaaggtcata gttaatggaa cctgggttga tggcatcgat gangtccaga 600  
 acaggcgagc ttgtacctcg gccgcgacca cgctaagggc gaattctgca gatatncatc 660  
 aacttgccgg gccgntcgag catgcattca ganggccaa ttcgccttat agtgagtcgt 720  
 attacaattc actgggccgt cgttttacia cgtcgtgact gggaaaacc tgcgttn 777

<210> 133

<211> 775

<212> DNA

<213> Homo Sapien

<220>

<221> misc\_feature

<222> (1) ... (775)

<223> n = A,T,C or G

<400> 133  
 ntgggcctct nnagcatgct cgacggccgc catgtgatgg atatctgcag aattcgccct 60  
 tagcgtggctc gcggccgagg tacaagtctg cctgttctgg acctcatcga tgccatccaa 120  
 ccaggttcca ttaactatga cttctgaag acagaaaatc tgaatgatga tgagaaactc 180  
 aacaatgcaa aatatgccat ctctatggcc cgaaaaattg gagcaagagt gtatgccctg 240  
 ccagaagacc tggttgaagt gaaccccaaa atgggtcatga ccgtgtttgc ctgcctcatg 300  
 gggaaaggaa tgaagagggt gtgaggccca atggggctgg gtgggaggcg gtgcactcac 360  
 tcctgactgc ccggcacaga tgctccaggg atgattcaag ccattccaaa gttcaacttg 420  
 gtgacactct ataagattcc aaaaagcaca tattagtga gccaaagtagc ctctcctgta 480  
 tttacaaaa agtgcttcat tctttgcagg aggcccaacc tncatatat aggtttctat 540  
 tcttgattta tttgcttctt cgaaaaatc gaggaagaaga aagaagttat tttccaggta 600  
 cctgcccggg cggccgaang gcgaattcca gcacactggc ggccgttact agtggatccg 660  
 agctcggtag caagcttggc gtaatcatgg tcatagctgt ttctgtgtg aaattgntat 720  
 ccggtcacaa ttcccacaca tacgaaccgc gaagcataaa gtgtaaagcc tgggg 775

<210> 134

<211> 772

<212> DNA

<213> Homo Sapien

<220>

<221> misc\_feature

<222> (1) ... (772)

<223> n = A,T,C or G

<400> 134  
 acnnttgacc tgataccag ctgggtccgac tcggacccta gtaacggccg ccatgtgctg 60  
 gaattcgccc ttgagcggcc gccggggcag gtctataagt ctttaaatg ggtcgtgttt 120  
 ttagcaggta agactaatat atctcttctc cagtgaattg atgctgggtg gattcgattt 180  
 cacatcacaa cttatattga tagggatttc cttcccaaga gtaataaatt gtttggtttg 240  
 atataaactt gggggcatat tcaatatcaa ggtacttttt tttttttttt aagtttttagt 300  
 tcagaataac attaatattg agagattgag gtaaagaacc ttaactaatg ctaaggagtt 360  
 tattttgatt aacatagggt attctgacca ccacctcttc cttccttaat ctcccttagaa 420  
 tctgacagtc tcaaaagctgt cacacaaatt agactaatat tgacactttg aaatgaaaac 480  
 ttcaaggag aagtagccac ggacagttat gtttataatc agtaggtggc actctttcct 540  
 caggtagccc cccattttca catgatgtgt ttgaaggtta aatgcccaca aagtgtctgag 600  
 tcagctataa aactaagtc ctgaattcca tggccctttt aaatatgtaa tcattcaaga 660

ttgaaaaaaa aaattaagca ttttttgntt gnttgcttgg ttggttttga gacngagttt 720  
cactcttgnt ggccaggctg gaggcgcaatg gcgccatctn actcactgna ag 772

<210> 135

<211> 784

<212> DNA

<213> Homo Sapien

<220>

<221> misc\_feature

<222> (1)...(784)

<223> n = A,T,C or G

<400> 135

ntgggcctct nnagcatgct cgacggccgc catgtgatgg atatctgcag aattcgccct 60  
tagcgtgggc ggggcccag gtacttcttt tgaataattc agtattttta aaatgcaagc 120  
caggcacagt ggctcacgcc tgtaatccag cactttggaa ggccgaggtg gggggatcac 180  
gaggtcagga gttcaagacc agcctggcca acatggtgaa acctcatctc tactaaaaat 240  
acaaaaacta gctgggcatg gtggcgggca cctgtaaccc cagctacttg gagggctgaa 300  
ggagaattgc ttgaatccgg gaggcagagg ttgcagttag ctgagatggc gccattgcac 360  
tccagcctgg ccaacaagag tgaactccg tctcaaaaac aaacaagcaa acaaacaaaa 420  
aatgcttaat tttttttttc aatcttgaat gattacatat ttaaaagggc catggaattc 480  
agggacttag ttttatagct gactcagcac ttttgggtggc atttaacctt caaacacatc 540  
atgtgaaaaat ggggggctac ctgaggaaaag agtgccacct actgattata aacataactg 600  
tccgtggcta cttcttcctt gaagttttca tttcaaagtg tcaaaattag tctaatttgt 660  
gtgacagctt tgagactgtc agattctaag gagattaaag gaanggaaga ggtgggtggc 720  
agaataacct atgttaatca aaaataaact tccttagcat taagttaang gtcctttacct 780  
caan 784

<210> 136

<211> 768

<212> DNA

<213> Homo Sapien

<220>

<221> misc\_feature

<222> (1)...(768)

<223> n = A,T,C or G

<400> 136

acnttgantg naccacttg tccgactcgg atccctagta acggcgagcgt gtgctggaat 60  
tcgccctttg agcgcccgcc gggcaggtag tttttttttt cttttttttac atctgatttt 120  
aatgcttcgt taacttcaaa aggggaactgg gtagagttca gaaggtaggc tgtgtttttt 180  
ctaaacctct tcccaggaag gagacattga cacttgaatt tttgccacct ttttcctcat 240  
tagaaggaaa gtagaaagcc ttactgtagg atttttaaaa aaaaatccat ctcaccccat 300  
attggcttta aataagtata gactaattaa cctaagctac ctttaacaac gtagaattta 360  
gatgggttca tatatgtgag aaaaacctga atataggaca ggggtcctac ttttttcccc 420  
acctctgccg cccaggctag agtatagtgg tgtgatcttg gccactgca acctctgctt 480  
cctaggttca agtgattctc ctgcctcagc ctcccaagta gctgggattg taagagtatg 540  
ccaccacgcc cagctacttt ttgtattttt agtagagaca ggggttcatc atgttggcca 600  
ggatggtctc ttaactcctg cctcaagtg atccaccaga gaggagatcc tcggccttcc 660  
caagtgtcgg gattataggc atgagccacc gtaccagcc tactttctaa ttaattaaaa 720  
aaaaannnnn nnnnaaaaaa acttnccaaa tgactgataa aaaactgc 768

<210> 137

<211> 777

<212> DNA

<213> Homo Sapien

<220>

<221> misc\_feature

<222> (1)...(777)

<223> n = A,T,C or G

<400> 137

ttgggcctct	ngagcatgct	cgacggccgc	catgtgatgg	atatctgcag	aattcgccct	60
tagcgtgggc	gcgcccgagg	taccatgctg	acttcttggg	atcttttaag	gcctaatttt	120
cccttccttg	agattactgt	agtgtgttcc	agctaatttc	tatttggaag	cgagttggaa	180
cagctgaaaa	ctaggtatta	ttgaaggcaa	agtagcctca	cgtagctttt	ttatcagctc	240
atttggaag	tttttttttt	tttttttttt	ttttttaatt	aattagaaag	taggctgggt	300
acggtggctc	atgcctataa	tcccagcact	tggggaggcc	gaggatctcc	tctctggtgg	360
atcacttgag	ggcaggaggt	aagagaccat	cctggccaac	atgatgaac	cctgtctcta	420
ctaaaaatac	aaaaagtagc	tgggcgtggg	ggcatactct	tacaatcca	gctacttggg	480
aggctgaggg	aggagaatca	cttgaacctc	ggaagcagag	gttgtagtgg	gccaagatca	540
caccactata	ctctagcctg	ggcggcagag	gtggggaaaa	aagtaggacc	cctgtcctat	600
attcaggttt	ttctcacata	tatgaaccca	tctaaattct	acgttggtta	aggtagctta	660
ngttaattag	tctatactta	tttaagacca	atatgggggtg	agatggattt	ttttttaaaa	720
atcctacant	aaggctttct	actttccttc	taatgaggaa	aaaagtggca	aaaattt	777

<210> 138

<211> 950

<212> DNA

<213> Homo Sapien

<220>

<221> misc\_feature

<222> (1)...(950)

<223> n = A,T,C or G

<400> 138

nnnnnnnnnn	nnnnnnnnnn	ntnnnnnnnn	nnnnnaaanc	cnnnnnttna	nnngnnaaac	60
cccattggna	aanttaacn	cccccaaaa	gcccttngg	ggtttaaccc	ccgaaagcct	120
tccgggggna	atccccaact	ttaagttaaa	acnggggccc	cgggcccaag	ttggttggcc	180
tttgggggaa	aatttcgcgc	ccctttccga	agccgggccc	ggccccgggg	gccaagggta	240
ccatgggaat	ggttaccttt	tggcaagaac	tggcaaaacc	ctggaaattt	tggatatttt	300
gctttggaca	ttggccctaa	attaattaag	tttcaagggt	gtcaggcttt	acccactttt	360
tgggtctggca	acatgcagaa	gagacagtgc	cctttttagt	gtatcatatc	aggaatcatc	420
tcacattggt	ttgtgccatt	actgggtcag	tgactttcag	ccacttgggt	aaggtggagt	480
tggccatatg	tctccactgc	aaaattgctg	attttccttt	tgtaatat	aagtgtgtgt	540
gaagattctt	tgagatgagg	tatatatctc	actcttcac	aaactataag	tttttttaag	600
taaaagaaaa	tttattatga	aactaaagga	ataaaagaat	gaccactcca	taggcagaga	660
aacgtcactt	taaggttttg	acgtcaattg	atttttgtcc	aatcaataa	ttactgcaat	720
gattgaaaaa	tgattattac	taagtttgtt	ttcattgtct	caaggtctgc	tgaactctgg	780
atccaggctg	tgtcaacagg	gtagtgtggg	gcctcctgta	cctcgccgcg	gaccacgcta	840
agggcgaaat	ctgcagatat	ccatcacact	ggcgccggtt	cgagcatgca	tctagagggc	900
ccaattcgcc	tatagttagt	cgtattacaa	ttcactggcc	cgcgttttag		950

<210> 139

<211> 779

<212> DNA

<213> Homo Sapien

<220>

<221> misc\_feature

<222> (1)...(779)

<223> n = A,T,C or G

<400> 139

ttgggcccnt	agagctgctc	gagcggccgc	catgtgatgg	atatctgcag	aattcgccct	60
tagcgtgggc	gcgcccgagg	tacaggaggc	accacactac	cctgttgaca	cagcctggat	120
ccagagttaa	gcagaccttg	agacaatgaa	aacaaactta	gtaataatca	tttttcaatc	180
attgcagtaa	ttattgattt	ggacaaaaat	caattgacgt	caaaacctta	aagtgcagtt	240
tctctgccta	tggagtgggc	attcttttat	tcctttagtt	tcataataaa	ttttctttta	300
cttaaaaaaa	cttatagttt	gatgaagagt	gagatatata	cctcatctca	aagaatcttc	360

acacacactt	attaattaca	aaaggaaaat	cagcaatfff	gcagtggaga	catatggcca	420
actccacctt	acccaagtgg	ctgaaagtca	ctgcaccagt	aatggcacia	accaatgtga	480
gatgattcct	gatatgatac	actaaaaagg	gcactgtctc	ttctgcatgt	tgacagacaaa	540
aagtgggtaa	gctgacactg	aaactaataa	ttaggcaatg	tcaagcaa	acaaattcag	600
gttgacagtc	tgcaaagtaa	catccatgta	cctgcccggg	cngnccgctc	gaagggcgaa	660
ttccagcaca	ctggcgcccg	ttactagtgg	atccgagctc	ggtaccaagc	ttggcgtaat	720
catgggcata	gctggttcct	gtgtgaaatt	ggtatncgct	cacaattncc	acaacatag	779

&lt;210&gt; 140

&lt;211&gt; 779

&lt;212&gt; DNA

&lt;213&gt; Homo Sapien

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(779)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 140

gcccntagag	catgctcgac	ggccgcccag	gtgatggata	tctgcagaat	tcgcccttag	60
cgtgggtcgc	gccgaggtac	caggtgggct	gacgcacatc	ccctaaacat	tctggatctc	120
ttactcatcg	tgaaaggcag	acgctctaag	tctaaagtct	agggtaggag	tttccattct	180
ttggaaaaacc	aaagatgggt	actcttctta	atgaaactga	gaagaaggta	tctacagaaa	240
acactgaatt	taaaacaatt	atgacctgtg	ttgttgaagc	catcaaggac	ccaagatata	300
tcaaagaaca	acatctctgt	attggcctac	aggttcagag	tgttttgagg	tctgtttaag	360
cactaatagg	atttttaggg	agcatccagt	cagaagagat	agttcacaga	ctcagagttg	420
gaaacagatt	aaaaaaaaaa	agatgtcaac	atagaaaatg	atgatagagt	ttagttaaaa	480
aaattcacac	ataaaattac	agttaaaaaa	attcacacat	aaaatagagt	gtttgcatag	540
caagacatta	ttgcccttca	gcctggcaga	aaaacataaa	ctcagggtga	tattttataa	600
taaacattgt	attgaatgct	aagaatgata	cactgttgaa	catctcctga	atggtttgcc	660
ttcttgtaaa	tcataccaat	tgtttagaca	attgaaattc	caagctcttt	ctctctctcc	720
atataaaaaac	caacagaaac	anggaggctg	ttagtagcaa	gctcctcatg	ggaaanggt	779

&lt;210&gt; 141

&lt;211&gt; 986

&lt;212&gt; DNA

&lt;213&gt; Homo Sapien

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(986)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 141

aanccnnnnn	ntttatttgg	gnaaacccaa	ttgggnaaaa	ttnaaccogn	cccccnnaaa	60
ngcccttttn	gggggttnaa	ccccccggaa	aaccttttcc	ggggggaaat	tccccaacct	120
ttaaagnttt	aaaaaccogg	gggccccggg	cccccaaagt	ttgggttggc	cnttggggga	180
aaaatttttt	ccgggcccc	cnttttaag	cccgttgagg	gtttccggcc	ngggggcccc	240
gggaaagggt	tnaccctttt	ttttttaact	tttttnnnnt	tccttttttn	nttccttttt	300
tttctttttt	tttttctttg	gtntnnnttt	ttttttcaat	tttttggttt	ttggtttttg	360
gttatggttt	ttttagaaca	ggggtccccc	tctgtcaccc	aggctggagt	gcagtgggtg	420
aatcacaggt	cactgaaacc	tcccacctag	ctgggactag	agggtcaggc	caccacacca	480
gctaatttat	gtaatttttg	tagagacgag	tttcaccacg	ttacctaggc	ttgtcttgaa	540
cacctgggct	caagcaatct	tccagcccc	gcctcccaaa	gtgctgggat	tacagggtata	600
aaccacaatg	cccccgtttt	tactctttac	tgcctccttc	ccatcagtat	taattctcca	660
gaaattttagt	acccctgtgc	ttcattcagt	atcagtaacc	ctgcaatgat	ttttacaaat	720
atctttttct	agtggtgttt	ttacttagag	gaaagaactt	tgtaatagct	cttaattgtt	780
atatataaga	gaagacagaa	tggaatgt	tttttggaagt	caaataattgc	atgatgtaaa	840
gaaaaaactt	taaacttaaa	tgagtanggt	tgctctgaat	tacactggta	actctctact	900
tcctttattaa	agaagttata	gtaagatgcc	tttggnatcc	tgatttcagt	gtacctgccc	960
gggcccggccg	ntcaaaaagg	cgaant				986

<210> 142  
 <211> 780  
 <212> DNA  
 <213> Homo Sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(780)  
 <223> n = A,T,C or G

<400> 142  
 gggcccggtan agcatgctcg agcgggccgcc atgtgatgga tatctgcaga attcgccctt 60  
 tccgagcggcc gcccgggcag gtacactgaa atcaggtaac aaaggcatct tactataact 120  
 tctttaataa agaagtagag agttaccagt gtaattcagg acaacctact catttaagtt 180  
 taaagttttt tctttacatc atgcaatatt tgacttcaaa aaacattttc cattctgtct 240  
 tctcttatat ataaacatta agagctatta caaagtcttt tcctctaagt aaaaaaccca 300  
 ctagaaaaag atatttgtaa aaatcattgc aggggttactg atactgaatg aagcacaggg 360  
 gtactaaatt tctgaggaat taatactgat gggaaggatg cagtaaagag taaaaacggg 420  
 ggcattgtgg tttatacctg taatcccagc actttgggag gctggggctg gaagattgct 480  
 tgagcccagg tgttcaagac aagcctaggt aacgtggtga aactcgtctc tacaaaaatt 540  
 cataaattag ctggtgtggt ggcctgcacc tctagtccca gctaggtggg aggtttcagt 600  
 gacctgtgat tgcaccactg cactccagcc tgggtgacag agtggggaccc tgtctaaaaa 660  
 aaacataaca naacanaacn naatgaaaaa aaaaacaaga aaaaagaata gaaaaagaaa 720  
 aaagtnaaaa gtnccctcggg cgcgaccacg ctaagggcga attccagcac actgcggccn 780

<210> 143  
 <211> 794  
 <212> DNA  
 <213> Homo Sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(794)  
 <223> n = A,T,C or G

<400> 143  
 nnnnnnnnnn nnnacnnttg actgataccc aacttggtac cgactcggac cactagtaac 60  
 ggccgccagt gtgctggaat tcgccccttc gagcgccgc ccgggcaggc acagaaaagaa 120  
 gagccaggat attctttgtt ttcctaagcg tagctgtgag caacattatc tctcctactg 180  
 gcttctttga ggtatgagag tcatcattac atctgtgtgc tttgtcaagt tatatgtcac 240  
 aattccacct gtgggtagag aacaagcaca agagtcacat caactgtgtg ctgggccagg 300  
 gttatgtcac aatcttccct gagagcatgc accaggcaga agagtcacat cacagggttc 360  
 tcaaccagag atgttacaat cctctcctga aagcaggaca caggaaaaag agtaagatca 420  
 cctgcatgct gggctcagat atatgtcaca agactcactg tgggcaaaag ccagaaggac 480  
 agacagaaca gctggttgct tgacccagca atatgtcaca atcttctcta tgggcagaat 540  
 gcaggcagaa gtagagggtc tcatcttcca ggtgatggat taaaaaata catcccaagg 600  
 ctctctgtgg gaaagggctc angcagaaac tttccaaccc ctangtgttt gcttcagtga 660  
 tatgtcacaa ttaacaaaaa tatgcagggt tcaagcaagt gagtnaagtc atatcaccta 720  
 nggtgcttgg tccanaaatc tgncaacaat tttttttttt ttttggcatg cccagcngaa 780  
 ttgaaaagtc ncan 794

<210> 144  
 <211> 782  
 <212> DNA  
 <213> Homo Sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(782)  
 <223> n = A,T,C or G

<400> 144

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cnnanngggcc cntagagcat gctcgacggc cgccagtggtg atggatatct gcagaattcg      60
cccttagcgt ggtcgcgggc gaggtacaat cttggctcac tgcaacctcc acctcccggtg      120
ttcaagcaat tctcctggct cagcctcctg agtgctggga ctacaggcat gcaccaccac      180
tcccacctaa ttttgtattt ttgatagaga cggggcttct ccatgttggt caggctgttc      240
tcaaactcct gacctcaggt gatttgactg tcttagcctc ccacagtgtg gagcttatag      300
gcagggtgccg cgacacctgg ctggaatcat ttatttcaac atatctctgg gtccaacaac      360
atggtgatgc aactttcctg catgggccct cccacagaaa tactctaata catcttttca      420
ttcattatct tgggtgatgtg acttttctat tctgcttggg cactgccaaa aaaaaaaaaa      480
aagattgtga cagatttctg gaccaagcac ctagggtgata tgactttact cacttgacctg      540
aaacctgcat attttggtta ttgtgacata tcactggaagc aaacacctag gggttggaaa      600
gtttctgcct gagcccttcc acagagagcc ttgggatgta ttttttaaat ccatcacctg      660
ggagatgaaa cctctactt ttgcctgcat tctgcccata gagaagattg tgacatattg      720
ctgggtcaag caaccagct ggtctgctgt cctnttggac tttgccaca agtgagtttt      780
gn

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<210> 145
<211> 780
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1)...(780)
<223> n = A,T,C or G

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<400> 145
annnttgacc tgataccag cttggtaccg agctcggatc cactagtaac ggccgccagt      60
gtgctggaat tcgccccttc gagcgccgc cggggcaggt acttttttta cttttttttt      120
cttttttttt ttggacatct gttttcactc ttaggctttt aaacaatagt tattgctttt      180
atcccttcca gattctaata actgagagcg atggggctat attgaatctc tgtatgcact      240
gagaactgag ctatgaagag gatcttatta aactgctggt ctgactttat ggattgacac      300
tgttccttcc ttttattgtg aaaaaaaaaa aaaacctga aagtcttggg aaccccctaa      360
agtcttttgg gaatcctcaa aaagcatggg aagttaagta tttagctaca taaatgttgt      420
aagatcatat cttatgtata gaagtaataa gaccatttgg aattactgga ctaattgaat      480
agttaagggt tctattcggg acaataaaat gtattttgaa agtgctgcta actattgatg      540
ctgacagtgt ttcactccta tgagtgaacc aaacatatta taaatatgtg gtaaagggaa      600
tggagcctgt ggggttgagc agaattgttg actttttttt tnnnnnnnnn nttttttngc      660
tttctattng atngataacg atttcnggat tncctttaa nncncngang gtttggaac      720
tttgactggt attctggttc ccngaaacag gttcactggg nnccggggga cacttttaan      780

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<210> 146
<211> 778
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1)...(778)
<223> n = A,T,C or G

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<400> 146
ttgggcccct agagcatgct cgacggccgc catgtgatgg atatctgcag aattcgccct      60
tagcgtggct gcggccgagg tacatggagg cctggactgt aaagagacta cggaaggggc      120
agcatgtgtg ttttgcttct cagattcatt gtcactcacg ttgcataaag tctcagttg      180
tttttaagta attgttttac tatggatata ttaaacatac agaataaaaa agggaataaa      240
catacaattt ggcaaaccct ctactgagcc tttaaaaata ttagaagggt ggtattaaac      300
caggtaactt acggattttg aaaaaaaaaa aaaaagaaag cattgaatat ggctggggcg      360
ttctctgggg atccttgggc agaccagtt tgcccagatt tctcactgta gttttcaaga      420
ataactgtag gaggcggtgg gagtgcagca tcctgagata agggagacga gccagaacag      480
cgcgggcact gttccagccc ccctagaaat ggggtgatct tcagtgtctc agctcagtgt      540
gtcatgtctc acccacgatg taaaagccta ggatcggagg cttccccagg gttcgtcagc      600
tgtggcacia tagggcccggt tgcaataaag attctattcc tgtcagacag tttcgtgagt      660

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ttgtggggga acaactcacc tagcttctgn tgnctcttca tgectgtgtg ttcctaataca 720  
acttttttgn gtaacttggg gttttgaaag tgtcaccagc acacaatgga acctgtcn 778

<210> 147

<211> 784

<212> DNA

<213> Homo Sapien

<220>

<221> misc\_feature

<222> (1)...(784)

<223> n = A,T,C or G

<400> 147

acnntatgac ctgattacgc caacttggtg ccgactcgga ccactagtaa cggccgccag 60  
tgtgctggaa ttgcgccctt cgagcggcgc cccgggcagg tacttttttt tttttttttt 120  
tttttttttg ggattgaatc aacatgcttt aataggaaaa gatgtatggg ctatatatgn 180  
atcaatctgg ngaancctcg ntctaataaa gggctctttt cttttctatg atacacacag 240  
ncacgctgat aatatgcnaa tgaacatttt cttttatgnc tctncanata atggttattg 300  
gctgaggnaa attaaattcc caccangntg tgctgncagt attttaacac ccacattagt 360  
atatgcntnc agggtcataa cccctaaaaa tccatnatgc aaccttatta atctggcttg 420  
ggantccngg ttaatgcttg gatttanttc ctgattacac tncntngaaa agtgagacat 480  
ttgncattcc caactttggg aaaaccaact tatattcaac cntntnaatg aaggccatct 540  
tgatggntc aacactaatt tttatgatgc aaattttatac acngattttt gtaaagggca 600  
aagttttaa agcgtattta acttgatggg ttctatcagc attaatnaaa tggncatgaa 660  
taggcattaa aaacagttgc cagtgatnat ctgcatgaaa ggaaaaagaa cctgcaaat 720  
ggctattgaa nttggaaata ttgntttga natgtaagaa aatntttaga aagctcncnc 780  
tgng 784

<210> 148

<211> 775

<212> DNA

<213> Homo Sapien

<220>

<221> misc\_feature

<222> (1)...(775)

<223> n = A,T,C or G

<400> 148

gggcccantan agcatgctcg acggccgccca gtgtgatgga tatctgcaga attcgccctt 60  
agcgtggctg cggccgaggt acaaagcact gtttaaaacc agtccaagat acttaatcca 120  
aactgtatca tgattcttca ttagaaatct agacaccact catgggtggt tcttacactt 180  
taaaaagttg aggcattttc agtgtgagca ttctgaatat ctcttacata tcaaaaacaa 240  
tacttccaac tcaatagcca ttgacagggt tctttttcct tcatgcagat tatcactggc 300  
aactgttttt aatgactatt catgaccatt ttatttatgc tgatagaaaa catcaagtta 360  
aatagccttt taaaactttg tcttttacia aaatcagtg ataaaatttg atcataaaaa 420  
ttagtggtga gaccatcaag atggccttca tttatatggt tgtatattag ttggttttcc 480  
cagagttggg aatggcagat gtctcacttt tctatgtagt gtaatcagga aataaatcca 540  
agcactaaac aggaatccca agacagatta ataagggtgc atgatggatt ttaggggggt 600  
atgaccctgg acgcataac taatgtgggt gttaaaatag tgacagcaag cctggtggg 660  
aattaattta cctcagacaa taaacattat ctggagagac ataaaaggaaa atgttcattt 720  
gcatattatc agcgtggctg ggtgtatcat agaaaaagaa aaagaacctt ttan 775

<210> 149

<211> 783

<212> DNA

<213> Homo Sapien

<220>

<221> misc\_feature

<222> (1)...(783)

<223> n = A,T,C or G

<400> 149

acnntatgac	ctgatacgcc	aagcttggtg	ccgagctcgg	atccactagt	aacggccgccc	60
agtgtgctgg	aattcgccct	tagcgtgggc	gcggccgagg	tacccgatta	aaccagagca	120
aaaactacct	tctgcaggtc	agggagctaa	tgacatggca	ttggccaaac	gttcccgcag	180
tcgaactgct	acagaatgtg	acgttcgtat	gagcaagtct	aagtcagaca	atcagatcag	240
tgacagagct	gctttggagg	ccaaaagtga	ggatcttctc	acgctggcaa	aaaccaaaga	300
cgtagaaatt	ttacatttga	gaaatgaact	gcgagacatg	cgtgcccagc	tgggcattaa	360
tgaggatcat	tctgagggtg	atgaaaaatc	tgagaaggaa	actattatgg	ctcaccagcc	420
gactgatgtg	gagtccactt	tattgcagtt	gcaggaacag	aatactgcca	tccgtgaaga	480
actcaaccag	ctgaaaaatg	aaaacagaat	gttaaaggac	aggttgaatg	cattgggctt	540
ttccctagag	cagaggttag	acaattctga	aaaactgttt	ggctatcagt	ccctgagccc	600
agaaatcacc	cctggtaacc	agagcgatgg	aggaggaact	ctgacttctt	cagtgggaag	660
ctctgcccct	ggctcantgg	gaggatctct	tgagtcagga	tgaaaaatac	ctaattggacc	720
attagcacag	tacttcatgg	caatttagac	agtgagtga	atgaggtcta	ccagcccctt	780
ann						783

<210> 150

<211> 771

<212> DNA

<213> Homo Sapien

<220>

<221> misc\_feature

<222> (1)...(771)

<223> n = A,T,C or G

<400> 150

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cgagcggccg	cccgggcagg	tactgtgttg	gttctcttcc	atctggtgta	tccgttcagt	120
caggcaagcc	acggacactt	cactggcatt	cccgctgctc	cccttcgggg	agcgctctat	180
gctggggatg	ccttcgcact	ctgaggagga	tggtgcatcc	agcgcatcat	cgctcgatgt	240
gaggggctgg	tagacctcac	tgcaactcact	gtctaaattg	tccatggagt	tactgtgctg	300
atggctcatt	agtgtatttt	catcctgact	caagagatcc	tccactgagc	caggggacga	360
gccttccact	gaagaagtca	gagttcctcc	tccatcgctc	tggttaccag	gggtgatattc	420
tgggctcagg	gactgatagc	caaacagttt	ttcagaattg	tctaacctct	gctctagggg	480
aaagcccaat	gcattcaacc	tgtcctttta	cattctgttt	tcatttttca	gctgggttag	540
ttcttcacgg	atggcagtat	tctgttcctg	caactgcaat	aaagtggact	ccacatcaag	600
tcggctgggtg	agccataata	gtttccttct	cagatttttc	atcacctca	gaatgatcct	660
cattaatgcc	cagctgggca	cgcattgtct	gcagttcatt	tctcaaatgt	aaaatttcta	720
cgtctttggt	ttttggcagc	gtgagaagat	ccttncttgg	nctcnaagcn	g	771

<210> 151

<211> 778

<212> DNA

<213> Homo Sapien

<220>

<221> misc\_feature

<222> (1)...(778)

<223> n = A,T,C or G

<400> 151

acnntatgac	ctgatacgcc	agcttggtac	cgactcggat	ccactagtaa	cggccgccag	60
tgtgtgga	ttcgcccttt	gagcggccgc	ccgggcagg	actttttttt	ttcttttttt	120
acatctgatt	ttaatgcttc	gttaacttca	aaaggaactg	gtagagtcca	gaagggtgagc	180
tggtgttttt	ctaaacctct	tcccaggaag	gagacattga	cacttgaatt	tttgccacct	240
ttttcctcat	tagaaggaaa	gtagaaagcc	ttactgtagg	atttttaaaa	aaaaatccat	300
ctcaccccat	attggcttta	aataagtata	gactaattaa	cctaagctac	ctttaacaac	360
gtagaattta	gatgggttca	tatatgtgag	aaaaacctga	atataggaca	ggggctctac	420
ttttttcccc	acctctgccg	cccaggctag	agtatagtgg	tgtgatcttg	gcccactgca	480



acctctgctt	cctaggttca	agtgattctc	ctgcctcagc	ctcccaagta	gctgggattg	540
taagagtatg	ccaccacgcc	cagctacttt	ttgtattttt	agtagagaca	gggtttcatc	600
atgttggcca	ggatgggtctc	ttaactcctg	ccctcaaagt	gatccaccag	agaggagatc	660
ctcggcctnc	ccaagtgtcg	ggattatagg	catgagccac	cgtacccagc	ctactttcta	720
attaattaaa	aaaaaannnn	nnnnaaaaaa	aacttnccaa	atgagctgat	aaaaacng	778

<210> 152  
<211> 772  
<212> DNA  
<213> Homo Sapien

<220>  
<221> misc\_feature  
<222> (1)...(772)  
<223> n = A,T,C or G

<400> 152						
gggcccntag	agctgctcga	cggccgccat	gtgatggata	tctgcagaat	tcgcccttag	60
cgtggtcgcg	gccgaggtag	catgctgact	tcttggtatc	ttttaaggcc	taattttccc	120
ttccttgaga	ttactgtagt	gtgttccagc	taatttctat	ttggaaacga	gttggaacag	180
ctgaaaacta	ggtattattg	aaggcaaagt	agcctcacgt	cagtttttta	tcagctcatt	240
tgggaagttt	tttttttttt	tttttttttt	tttaattaat	tagaaagtag	gctgggtacg	300
gtggctcatg	cctataatcc	cagcacttgg	ggaggccgag	gatctcctct	ctgggtggatc	360
acttgagggc	aggagttaag	agaccatcct	ggccaacatg	atgaaaccct	gtctctacta	420
aaaatacaaaa	aagtagctgg	gcgtggtggc	atactcttac	aatcccagct	acttgggagg	480
ctgaggcagg	agaatcactt	gaacctagga	agcagagggt	gcagtggggc	aagatcacac	540
cactatactc	tagcctgggc	ggcagagggt	gggaaaaaag	taggaccocct	gtcctatatt	600
cagggttttc	tcacatatat	gaaccatctc	aaattctacg	ttgttaaagg	tagcttaagt	660
taattagtct	atacttattt	aagaccaata	tggggtgaga	tggatttttt	tttaaaaaat	720
cctacagtaa	ggnnttctac	tttccttcta	atgaggaaaa	angnggcaaa	at	772

<210> 153  
<211> 780  
<212> DNA  
<213> Homo Sapien

<220>  
<221> misc\_feature  
<222> (1)...(780)  
<223> n = A,T,C or G

<400> 153						
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tttttttttt	tttagttaaa	gaatgcttta	ttaatacaaa	tacacacaaa	ctctgaagca	180
ctaagaaatt	taaatactta	tgtcacagca	aacagggtgg	aattcaacat	ccagggtcga	240
cagaatgctt	gaaggagact	gcaacagatt	ggattcccat	ggtggagagg	gcatnttcac	300
aggtgaaggg	gggcccagct	gaaacagctt	ttcaagctct	ctctcctcgt	caaggatcat	360
gagaggcact	ccactcaagg	ggagggtgcg	aatctggtgc	tcttcaggca	ggtcaaaaact	420
ctcaaagtct	agaggattga	agggaaagaa	tttttctatt	tctggatagg	catcatctga	480
ggcaggaaca	gagctttttg	ctttaacagt	cttctcagtc	atcttttttg	cagaaaagct	540
tggctgtttt	tgtttgaggg	gtcccttggt	ctttacagac	ttttctgtag	ctctgttgac	600
agttcccaaa	gcctttctag	tagcttttagg	taaggctggt	ggggcatcga	acgttttgcc	660
aaaacytggt	gttgaaactt	gagatctccc	atctaangct	ttgattgaan	gtccagaccc	720
cagcttcagc	ccatccttag	caaccacacn	ggtgcctggg	tctncatttt	ccttatnang	780

<210> 154  
<211> 770  
<212> DNA  
<213> Homo Sapien

<220>

<221> misc\_feature  
<222> (1)...(770)  
<223> n = A,T,C or G

<400> 154  
gncctgttnna gctgctcgag cggccgccat gtgatggata tctgcagaat tcgccctttc 60  
gagcggccgc ccgggcaggt acgcggggac cgcggcctca gatgaatgcg gctgttaaga 120  
cctgcaataa tccagaatgg ctactctgat ctatgttgat aaggaaaatg gagaaccagg 180  
caccctgttg gttgctaagg atgggctgaa gctggggtct ggaccttcaa tcaaagcctt 240  
agatgggaga tctcaagttt caacaccacg ttttggcaaa acgttccgatg cccaccacgc 300  
cttacctaaa gctactagaa aggctttggg aactgtcaac agagctacag aaaagtctgt 360  
aaagaccaag ggacccctca aacaaaaaca gccaaagcttt tctgccaaaa agatgactga 420  
gaagactgtt aaagcaaaaa gctctgttcc tgcctcagat gatgcctatc cagaaataga 480  
aaaattcttt cccttcaatc ctctagactt tgagagtttt gacctgcctg aagagcacca 540  
gattgcgcac ctccccttga gtggagtggc tctcatgatc cttgacgagg agagagagct 600  
tgaaaagctg tttcagctgg gcccccttc acctgtgaag atgccctctt caccatggga 660  
atccaatctg gtgcagtctc ttcaagcatt ctgtcgaccc tggatgttga attgccacct 720  
gtttgctgtg acatagatat ttaaatttct tagtgcttca gaggttgngg 770

<210> 155  
<211> 767  
<212> DNA  
<213> Homo Sapien

<220>  
<221> misc\_feature  
<222> (1)...(767)  
<223> n = A,T,C or G

<400> 155  
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gtgctggaat tcgcccttag cgtggctcgc gccgaggtag gcgggcccgc tggataactg 120  
ccctgggaca cagcagcggg aagccgcctg cagactgaac ctactgacc caggtggaaa 180  
tcgttaggtc atttactgct aagcagccag atgaactctc cctgcaggtg gctgacgtcg 240  
tcctcatcta tcaacgtgtc agcgatggct ggtatgaggg ggaacgacta cgagatggag 300  
aaagaggctg gtttcctatg gaatgtgcca aggagataac atgtcaagct acaattgata 360  
agaatgtgga gagaatggga cgcttgctag gactggagac caacgtgtag tctctcagat 420  
ggctctttgt tactgcaaga tttgcacgac acttaccggg ctggttggtt ctgggctagt 480  
tttattgnta attttgtcac agcctattta attaaaagaa cgaaaacact tgcctttaag 540  
cttgccagggt tgttctgctc tctcatgaga agagcttggg tacagtgagt ttgcacagct 600  
cagtttttac ctaaccacac acttgacgac ctntcgaggt acctgcccgg gcggccgctc 660  
gaaanggcga attctgcaga tatccatcac acttggcggn cgctcgaaca tgcattctaga 720  
nggcccaatt cgnccatatg tgagtctgat tacaattcac tggncgc 767

<210> 156  
<211> 827  
<212> DNA  
<213> Homo Sapien

<220>  
<221> misc\_feature  
<222> (1)...(827)  
<223> n = A,T,C or G

<400> 156  
attgggcccc tagatgcatg ctgcagggcc gccagtgtga tggatatctg cagaattcgc 60  
cctttcgagc ggccgcccgc gcaggtagct caggaggtct gcaagtgtgt ggtaggtaa 120  
aaactgagct gtgcaaaact actgtatcca agctcttctc atgagagagc agaacaacct 180  
ggcaagctta aaggcaagtg ttttcgttct ttttaattaaa taggctgtga caaaattaac 240  
aataaaacta gcccagaacc aaccagcccc gtaagtgtcg tgcaaatctt gcagtaacaa 300  
aagaccatct gagagactac acgttggtct ccagtcctag caagcgctcc attctctcca 360  
cattcttata aattgtagct tgacatgtta tctccttggc acattccata ggaaaccagc 420

ctctttctcc	atctcgtagt	cgttccccct	cataccagcc	attggctgac	acnttgattg	480
gatgaaggcc	ancttanncc	nactngcagg	gagaagtcaa	tttgnttgnt	taaccnntna	540
atggancctt	accnanttnc	acctggggtc	aagtgagggt	tcaagtctgc	angeggcttc	600
ccgctgctgt	ggtcccaagg	gcaaagttatn	cagcggggcc	cgcgttacct	tgggccgggg	660
accaacgcct	taangggccg	aaattttcaa	gcacacttgg	ccggcccggt	acctagtggg	720
atnccgaact	tcgggtaccc	aaagccttgg	gcgttaatca	atgggtcaat	aggcttggtt	780
tcctgggtgtg	naaaattggt	aatccggttc	acaantttcc	cacaaca		827

&lt;210&gt; 157

&lt;211&gt; 818

&lt;212&gt; DNA

&lt;213&gt; Homo Sapien

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1) ... (818)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 157

aacactatga	cctgatacgc	cancttggtg	ccgncctcga	tccttagtaa	cggccgccag	60
tgtgctggaa	ttcgcccttt	cgagcggccg	ccgggcagggt	acataatctg	gaaatttatg	120
ttacaggtat	gcatatttgt	atatgaaaaa	tattaactga	gaaattactg	agcttcttag	180
caaaaaatat	aattatttca	gagatatgat	acagtttaat	atctgccttc	ctcaaaaagt	240
cagaaaaata	aaagttttta	attgcatata	ttttcatttc	ttacatatgt	cagaacactc	300
agaattttta	ataaaatggt	ttaaaacata	attataagtt	gttactttta	ttctatggt	360
tagtggaacc	cacagggtcc	tgtatctgat	taaatggagg	atatattagg	agaatttttt	420
agaagaatga	cacatgtgac	ataccaccat	atttgcaaga	aaatataact	tgatagtaga	480
gtaagttagc	tgttttatat	gatgaattaa	aggcactagc	tcttagaaaa	aaaaggatta	540
aaatgctgac	ttcagtaata	atgtaaggag	ctctgctctt	taacatttcc	taattaggtg	600
taaaactatga	tgggaaggaa	agggtggaatg	gaagtntcta	cntnttacca	ttggctttcn	660
ttcatgaaat	tggcaggnag	cctnccattt	cnnnaggnc	ttaatnaaaa	antttttccc	720
aacttttnt	tttcnaaaaa	nttnttnncc	nnatngnnaa	ctggnggtna	aaacccggct	780
tttttggggg	gaaancctac	ctggntnggg	naaaaaant			818

&lt;210&gt; 158

&lt;211&gt; 772

&lt;212&gt; DNA

&lt;213&gt; Homo Sapien

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1) ... (772)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 158

ntggggccnt	nnagcatgct	cgacggccgc	cagtgatgat	gatatctgca	gaattcgccc	60
ttagcgtggt	cgcgcccgag	gtacttcaac	cacccctcct	acaaaactct	atacccttgt	120
catattaaaa	ttgtatgta	tgccaggctt	ccctaataca	acaaaatctc	tgaataaaac	180
ctattaaata	tacaatttct	atcaacatgc	ctgccacaca	tgcttaataa	ttgcttagtg	240
aatacaagat	taatgcatga	gtgcctaagt	tacttcatct	agtataacaa	atgacaatat	300
ctcattttgt	tccegaagta	tccttattcc	attcaagctc	tgaagaaagt	attaatgata	360
ttcgtcctta	agtaattttt	tctgcattca	aatctcacca	ttcaaatgat	tttccaacag	420
tagtttcccc	aaaagcagtt	tacacagtta	catttggtat	aatttttgaa	agaaaagtgt	480
ggaaaatttt	attaagactc	tgaatgtagc	ttactgccaa	ttcatgaaga	aagcaatgta	540
atacgtagat	actttattcc	acctttccct	tcacatag	ttataactaa	ttaggaaatg	600
ttaaagagca	gagctcctta	cattattact	gaagtcagca	tttatacttt	tttttctaag	660
agctagtgcc	tttaattcat	catataaagc	agctaactta	ctctactatc	aagttatatt	720
ttcttgcaaa	tatggtggta	tgtcacatgt	gtcattcttc	taaaaaattc	tg	772

&lt;210&gt; 159

&lt;211&gt; 1024

&lt;212&gt; DNA

<213> Homo Sapien

<220>

<221> misc\_feature

<222> (1)...(1024)

<223> n = A,T,C or G

<400> 159

ttgggnaaaa	ttttaaacccg	gcccccccaa	angncccttt	ttgggggntt	aaaccccccg	60
gnaangcccc	tttcgggggg	gggaaattcc	ccccaacctt	ttaaagggtt	aaaaaccccg	120
gggcncnccg	gccccccaaa	ggtttgggtt	tgggcccttt	ggggggaaaa	aattttttcc	180
gggccccccc	ntttttaaag	gccgggttgg	ggggtttccc	gggcccgggg	gccccccgga	240
aaagggggtt	aacccccttn	aatttttttn	gggtttttcc	cccccaaatn	gggtttccaa	300
tttttttttt	tttaaaaaac	ccaaaanggg	aaaaaaaggg	gttggcccaa	aatttaaggg	360
cctttccttc	aaaagggttt	cctttgggaa	aaaaaaacct	tgggttgggg	gaaaagggtt	420
nccccaaaa	ttaaacctgg	gaaaaccttc	tttgggnaac	ccactttaaa	aatttaaaant	480
taaanttaaa	tttaaattta	aanttaagga	atgggnttgg	aaaaaaaaag	gaatatccn	540
ttaatattgg	cttaattttt	taatttgntn	atttgactgg	tnatgnnttt	acttttnaaa	600
aacntnctnn	ccaaaaacca	attttacntg	gncnngtggg	atttaccntn	ttcnattacc	660
ngggagttaa	cccaactnga	acntttngga	gggnccagtc	ctccataggg	acctccntca	720
ntntgatnc	caactgcaag	ttcagggaag	ttctcacatc	ccccttgggc	natatatctc	780
tttaaaagcn	cctcacagca	ctcactgaan	tctattatat	tatagatang	gtntattatg	840
ggaaaanggt	nacanntcaa	natnncccaa	cgcggggana	cacannngnc	agngcccgat	900
gatntttccna	nacacagant	ttgggtttct	ctggagncgt	ttcccccnta	gnaaaatggt	960
gacacntgga	cagagttttt	acccccaggg	gaacgtnaat	caatctttgg	aagtttcaaa	1020
tcag						1024

<210> 160

<211> 771

<212> DNA

<213> Homo Sapien

<220>

<221> misc\_feature

<222> (1)...(771)

<223> n = A,T,C or G

<400> 160

gggcctctnn	agcatgctcg	agcgcccgcc	agtgtgatgg	atatctgcag	aattcgccct	60
ttcgagcggc	cgccccgggca	ggtactgtaa	gttattttct	tccttatctc	ccaatgacac	120
tgttttctac	atgaaaaata	ccattttggc	tttatcaaca	tgttattaat	tcataatatg	180
agagatctat	cagcactatt	tgtaaaaaata	ttcaattaaa	aaaattaaga	tgatttatag	240
ttgtgtggta	agaattttga	ccttacccaa	aggaggtcag	gcttttgccc	tcagccttaa	300
ggagataatc	ttgtcatacc	caataaaaagt	gttattttta	agtgaggctg	actacacctg	360
ataatccagc	ttgaggggaca	gttatgccag	tttgaccaac	tagatgattt	agggagcttt	420
ctctcccaac	ttcaaagctg	tgatgaatca	aacaggtaat	taatcgatca	tgcttatgta	480
atgaagcctt	gattgaaact	tcaaagattg	attgacgttc	cttggttggg	aatactctgt	540
catgtgtcaa	ttctagaagg	gtaatacgtc	ctgaggataa	cagaagctct	gtgtttggaa	600
tcatectgga	ctctgcactt	tgnttctcct	gcttttgctg	attttgatct	gtaaccttta	660
cctataataa	accataacta	taatataata	gatttcagtg	agtgcgtgta	ngctttctag	720
tgattttattg	aacctaaggg	tggtatgtgag	aatttntctga	acttgcagtt	g	771

<210> 161

<211> 771

<212> DNA

<213> Homo Sapien

<220>

<221> misc\_feature

<222> (1)...(771)

<223> n = A,T,C or G

```

<400> 161
acncttgacc tgatcgccag cttggtaccg actcggaccc tagtaacggc cgccagtggt 60
ctggaattcg cccttagcgt ggtcgcgccg cgaggtagac aatttattat gaaatagctt 120
aatggcaagt ggtaatttag aagaattaag ttatcagata ggagatatat taaaatattt 180
aaaaattgga tatattcttg aagccctttt acacaagtaa ttctataat ttgattgtaa 240
tgaaagtata atataccttg ttactattat cagattaatt ttgaaagta gaattcctta 300
atcaagccaa ggttatgctg ctttataaga aattaatcag gtatgttaac actagagctc 360
attagccaac ctgtatgtag cacaaaataa tcactcttga taaataccta taaatatatt 420
ttattcatat ttttaaatat tttaacaattc aaataaaaaac cttatatgta gacaatctgg 480
gctaaatttc catgtatgtt ttgaaaaata atgttagcat gaatagattc atatttaaat 540
atgattttta atactcttaa tagaggagac ataagaaata ttacataaaa agctaagtag 600
catgatacag ctcattggtt ttttctcat aggaaaacaa ttacttgatt ttttttgca 660
taggattaaa gactgagtat cttttctaca ttcttttaac ttctaangg gcacttctca 720
aaacacagac caggtagtaa atctncaactg ntctaaggtc tcacccact t 771

```

```

<210> 162
<211> 768
<212> DNA
<213> Homo Sapien

```

```

<220>
<221> misc_feature
<222> (1)...(768)
<223> n = A,T,C or G

```

```

<400> 162
gggcccctnn agctgctcgn cggccgccag tgtgatggat atctgcagaa ttgcgccctta 60
gcgccgccc gggcaggtac tacaaaaaca gaataatttt gaagttttag aataaatgta 120
atatatttac tataattcta aatgtttaaa tgcttttcta aaaatgcaaa actatgatgt 180
ttagttgctt tattttacct ctatgtgatt atttttcta attgttattt ttataaatca 240
ttattttctt gaaccattct tctggcctca gaagtaggac tgaattctac tattgctagg 300
tgtgagaaag tgggtggtgag aaccttagag cagtggagat ttactacctg gtctgtgttt 360
tgagaagtgc cccttagaaa gttaaaagaa tgtagaaaag atactcagtc ttaatcctat 420
gcaaaaaaaa atcaagtaat tgttttccta tgaggaaaat aacctgagc tgtatcatgc 480
tacttagctt ttatgtaaat atttcttatg tctcctctat taagagtatt taaaatcata 540
tttaaatatg aatctattca tgctaacatt atttttcaaa acatacatgg aaatttagcc 600
cagattgtct acatataagg tttttatttg aattgtaaaa tatttaaaag tatgaataaa 660
atatatttat aggtatttat cagagatgat tattttgtgc tacatacagg ttgggctaata 720
gagctctagt ggtaaactac ctgataattt cttataaagc agcatacc 768

```

```

<210> 163
<211> 776
<212> DNA
<213> Homo Sapien

```

```

<220>
<221> misc_feature
<222> (1)...(776)
<223> n = A,T,C or G

```

```

<400> 163
nantatgacc tgatacgcca acttggtacc gactcggatc cactagtaac ggccgccagt 60
gtgctggaat tcgcccttag cgtggtcgcg gccgaggtac tcttcgcag aggggaaggct 120
gtagaagtct ttgcaagctt catacagaga aatacaaaaag gtgtgatgcc attaactggt 180
cctttctaaa gcattaggaa tttagtgaat ctctcaaaaca caaaactgaa aagccatttg 240
aacaaatctc atatacttgt agataagctt ttttttattt aaagcataca aattcaaatc 300
tttcaagcag aaaattcagt caagtgagat ccattgggtg tttgagttca aagtcagtga 360
gcaaatggaa atcattgctg catctctctc atttccttag tggacattag accactcaaa 420
atgtgtcaca taatttacag ccccttggtg gtaattgaat atacacgttg agagtgcact 480
ggcagaacac ttaagaaaga ttgaatgcag gaggaccagc ttacgttatt tttggctcta 540
ctctggtttt tgcttttaat gtttttctt gagattaatt tcaattgggt tgttccatcc 600
tattcaaaaca aatgctttga gagaagagat gaacagcagc atcaaaataaa attgtgatat 660

```

```

ttagtttnag agacatcang tgttgtaatc aaataagaca gaanggccaa gttaaaatct 720
gtgattngca taaatgaatt taactgttag aatagcanaa ttgagaggtg gattan 776

```

```

<210> 164
<211> 773
<212> DNA
<213> Homo Sapien

```

```

<220>
<221> misc_feature
<222> (1) ... (773)
<223> n = A,T,C or G

```

```

<400> 164
cgggcctcta gatgctgctc gacggccgcc atgtgatgga tatctgcaga attcgccctt 60
tcgagcgccg cccgggcagg tacacagtgg ataccacata ctgctctga ggaagaagga 120
ggaggagaaa gaggagaagg aaggaaattt tcaaatagaca atttctatca ggactcattt 180
tcctattata agttcagaat acttggaagt ctttataaaa tcaagttgaa atctctacta 240
ttttgatctg tattctctta aatattaaag gttataccta gggagattcc atgttgactg 300
gcaaaacaaag cataccattt taagaataaac tcttcataaa atatgtgtct aagaattaaa 360
agtgtctagt aacagataca caaaagagag atttagaata attaatattt aaagacagat 420
aattttaatg tttcacactt ttaactacaa aattctttgt tttcctaaat attagcaaaa 480
atgttatata ttaaaataaa tcttgaaaat ctcaccctac atttagataa tagttcaaaa 540
gtcatattgc taatctacct ctcaattctg ctattcttac agcttaaatt catttatggc 600
aaatcacaga ttttactttg tcttctgtgc ttatttgatt acaacacctg atgtctctga 660
aactaaatat ccaatttatt tgatgctgct gtccatctct tctctcaaag cattngtttg 720
aatangatgg aacaacccaa ttgaaattaa tctcaaggaa aaacattaaa ant 776

```

```

<210> 165
<211> 783
<212> DNA
<213> Homo Sapien

```

```

<220>
<221> misc_feature
<222> (1) ... (783)
<223> n = A,T,C or G

```

```

<400> 165
tnnnnnacac tatgacctga ttacgccanc ttggtaccga ctgggatcca ctagtaacgg 60
ccgccagtgt gctggaattc gcccttagcg tggtcgcggc cgaggtacag taggaaaata 120
agaataacaa cgggcaaaat ctttttagaa catttatgct ttatctgttt tagcttctaa 180
aacaatcctg aaggatgaat aattatcatg agtatagcag aatttaattt tccctgttgc 240
tccaaaattt taatgaaaac tttacggttg agagaaatag gtaaaataaaa aaacttccta 300
aaattctaaa gacaattgtt gaataaaatt taagtgaatg agtttgtgct tcatatttaa 360
cttttaactt tccaataggc tttattaaat ggaaaactga aatttacaaa gtcttagagt 420
agaagcattt ttatcctggc tagggattct ctaagagaac cagtagcacc aagatgcact 480
ggaacagtgc aacgagagag ttcatgcctt agggttttaga agcatacaag caaagggaat 540
ggtgccact tcttactaga aaaatttcac aggctggagt ctgggcggag gagcctggga 600
tgacagtaga agtgtgcagg aagcactaag tctagcctgt acctgcccgg gcggccgctc 660
gaaaggcgaa ttctgcagat atncatcaca ctggccggcc gntcgagcat gcatntagag 720
ggcccaattc gcctatagtg ancgtattac aattcactgg ccgcgtttta caacgtnnng 780
cnn 783

```

```

<210> 166
<211> 775
<212> DNA
<213> Homo Sapien

```

```

<220>
<221> misc_feature
<222> (1) ... (775)

```

<223> n = A,T,C or G

<400> 166

attgggcctc	tnnagcatgc	tcgagcgggc	gccagtgtga	tggatatctg	cagaattcgc	60
ccttcgagcg	gccgcccggg	caggtacagg	ctagacttag	tgcttcctgc	acacttctac	120
tgatcatcca	ggctcctccg	cccagactcc	agcctgtgaa	atctttctag	taagaagtgg	180
gcaccattcc	ctttgcttgc	atgcttctaa	accctaaggc	atgaactctc	tcgttgcaat	240
gttccagtgc	atcttggtgc	tactggttct	cttagagaat	ccctagccag	gataaaaaatg	300
cttctactct	aagactttgt	aaatttcagt	tttccattta	ataaagccta	ttggaaagt	360
aaaagttaaa	ttgaagcac	aaactcattc	acttaaattt	tattcaacaa	ttgtcttttag	420
aatttttaga	agttttttta	tttacctatt	tctctcaacc	gtaaagtgtt	cattaaaatt	480
ttggagcaac	agggaaaatt	aaattctgct	atactcatga	taattattca	tccttcagga	540
ttgttttaga	agctaaaaca	gataaagcat	aaatgttcta	aaaagatttt	gcccggtgtt	600
attcttattt	tcctactgna	cctcgccgcg	gaccacgcta	agggcgaatt	ccagcacact	660
ggcgcccggt	actagtggat	ccgagctcgg	taccaanctt	ggcgtaatac	tggtcatagc	720
tggttctctg	gtgaaantgt	atccgntcac	aattcacaca	acatacganc	cggag	775

<210> 167

<211> 797

<212> DNA

<213> Homo Sapien

<220>

<221> misc\_feature

<222> (1)...(797)

<223> n = A,T,C or G

<400> 167

ttgnaacnat	tntgacctga	ttacgccaac	ttggtaccga	gctcggatcc	actagtaacg	60
gccgccagtg	tgctggaatt	cgcccttagc	gtggctcgcg	ccgaggtact	ttcagaaggt	120
aaatcagtag	atcaccatg	tgtatctgca	ccttctcaac	tgagagaaga	accacagttg	180
aaacctgctt	ttatcatttt	caagatgggt	attttagaga	ggcgaggaac	caattatgct	240
tgtattcata	agtattactc	taaatgtttt	gtttttgtaa	ttctgactaa	gaccttttaa	300
ccatggttag	ttgctagtag	ccttccttgt	ccgaaggagc	tgaccagtat	tgatgagaga	360
gtccaggcag	ctcctgaagt	tcagctggta	gtttgttctc	tgaacatttg	gtctcttgaa	420
ggcacagtat	atctggggct	tcttccttta	cccaatctaa	tcctttcttc	ttaatccagg	480
ctcgaagccc	atncacattc	caagagcaga	tcttgagtgt	ggcaggtttg	ccactgggtg	540
aggttttctg	atctgggggg	tcctcataca	gggctggggc	cctntcctgc	tgccctcttg	600
tcattttctt	tgccggccgt	cttactcttc	ttggcctctg	gcttctgtcc	tgagctcatc	660
cccgctcttc	ggccaccngt	tccccttttt	tacacgcctt	cggcatttcc	cgttaccgaa	720
cgcccttttg	gcagctgtac	ctgcccngg	cggccgttcg	aaaagggcna	attcttgcag	780
aatttccatc	ncaccnn					797

<210> 168

<211> 780

<212> DNA

<213> Homo Sapien

<220>

<221> misc\_feature

<222> (1)...(780)

<223> n = A,T,C or G

<400> 168

acantatgac	ctgatacgcc	aacttggtac	cgactcggat	ccactagtaa	cggccgccag	60
tgtgctggaa	ttcgccctta	gcgtgggtgc	ggccgaggta	ctccgggtcg	tgctcagcag	120
acggcgcat	gaacattgca	atgtggagcc	caaaccacag	aaaatgggg	gaaattggcc	180
aactttctat	taacttatgt	tggcaatttt	gccaccaaca	gtaagctggc	ccttctaata	240
aaagaaaatt	gaaaggtttc	tactaaaacg	gaattaagta	gtggagtcaa	gagactccca	300
ggcctcagcg	tacctgcccg	ggcgcccgct	cgaaagggcg	aattctgcag	atatccatca	360
cactggcgcc	cgctcgagca	tgatcttaga	gggcccgaat	cgccctatag	tgagtcgtat	420
tacaattcac	tggccgtcgt	tttacaacgt	cgtgactggg	aaaaccctgg	cgttacccaa	480

cttaatcgcc	ttgcagcaca	tcccccttcc	gccagctggc	gtaatagcga	agaggccccg	540
accgatcgcc	cttcccaaca	gttgcgccagc	ctgaatggcg	aatggacgcg	ccctgtaacg	600
gcgcattaag	cgcgccgggt	gtgggtggta	cgcgccagcg	gacccgtaca	cttgccagcg	660
ccctancgcc	cgctnctttc	gctttcttcc	ctttctttct	tngcacgttc	gccggctttt	720
cccgctcaagc	tctaaatcgg	gggctccttt	tanggttccg	atttantgct	ttacngnacn	780

<210> 169  
 <211> 771  
 <212> DNA  
 <213> Homo Sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(771)  
 <223> n = A,T,C or G

gggcnctng	agcatgctcg	acggccgcca	tgtgatggat	atctgcagaa	ttcgcccttt	60
cgagcgcccg	ccccggcagg	tacgctgagg	cctgggagtc	tcttgactcc	actacttaat	120
tccgtttagt	gagaaacctt	tcaattttct	tttattagaa	gggccagctt	actgttggtg	180
gcaaaattgc	caacataagt	taatagaaag	ttggccaatt	tcacccatt	ttctgtgggt	240
tgggctccac	attgcaatgt	tcaatgccgc	gtgctgctga	caccgaccgg	agtacctcgg	300
ccgcgaccac	gctaagggcg	aattccagca	cactggcgcc	cgttactagt	ggatccgagc	360
tcgggtacaa	gcttgccgta	atcatggtca	tagctgttcc	ctgtgtgaaa	ttgttatccg	420
ctcacaaatc	cacacaacat	acgagccgga	agcataaagt	gtaaaagcctg	gggtgcctaa	480
tgagttagct	aactcacatt	aattgcgttg	cgctcactgc	ccgctttcca	gtcgggaaac	540
ctgtcgtgcc	agctgcatta	atgaatcggc	caacgcgcgg	ggagaggcgg	tttgcgtatt	600
gggcgctctt	ccgcttinct	gctcactgac	tcgctgcgct	cggtcgctcn	gctgcggcga	660
gcgggtatcaa	gctactcaaa	ggcngtaata	ccgntatcca	cagaatcagg	ggataacgca	720
ggaaaagaaca	ttgtgagcaa	aaggcancaa	aagggcagga	accgtaaaaa	n	771

<210> 170  
 <211> 777  
 <212> DNA  
 <213> Homo Sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(777)  
 <223> n = A,T,C or G

acacttgacc	tgatacgcca	acttgggtacc	gagctcggac	cactagtaac	ggccgccagt	60
gtgctggaat	tcgcccttag	cgtggctcgcg	gccgaggtag	acagaatagc	tgagcagttc	120
acttcaggga	tcagggtcatc	tctgctcctc	ctagtttcac	catgttctgg	caataaaaaa	180
cacatattat	atcctgggtt	tctctatcct	tgcattacta	aggtgactgt	ctctctttat	240
acatccttgt	atggttctcc	cagtattagc	aagattgtat	atctgtaaag	aatgtccagt	300
tttgtaaata	tttccctgcc	tttttttttc	tttttttaca	tctgatttta	atgcttcggt	360
aacttcaaaa	ggaactggta	gagttcagaa	ggtagctgt	tgtttttcta	aacctcttcc	420
caggaagggg	acattgacac	ttgaattttt	gtcacctttt	tcctcattag	aaggaaagta	480
gaaagcctta	ctgtaggatt	tttaaaaaaa	aatccatctc	accccatatt	ggtcttaaat	540
aagtatatag	taattaacct	aagctacctt	taacaacgta	gaatttagat	gggttcatat	600
atgtgagaaa	aacctgaata	taggacaggg	gtcctacttt	tttccccacc	tctgtcgccc	660
aggctagagt	atagtgggtg	gatcttgccc	cactgnaacc	tctgcttcc	anggtcaagt	720
gattcttctt	gcctcacctt	ccaagtagct	gggattggaa	gaatatgccn	ccccccg	777

<210> 171  
 <211> 782  
 <212> DNA  
 <213> Homo Sapien

<220>



<221> misc\_feature  
 <222> (1)...(782)  
 <223> n = A,T,C or G

<400> 171  
 nngggcccnt agagcatgct cgacggccgc cagtgtgatg gatatctgca gaattcgccc 60  
 ttctgagcgg ccgcccgggc aggtactttt tttttttttt tttttttttt tttaattaat 120  
 tagaaagtag gctgggcacg gtggctcatg cctataatcc cagcacttgg ggaggccgag 180  
 gatctcctct ctggtggatc acttgagggc aggagttaag agaccatcct ggccaacatg 240  
 atgaaacctt gtctctacta aaaatacaaa aagtagctgg gcgtgggtggc atactcttac 300  
 aatcccagct acttgggagg ctgaggcagg agaatacact gaacctagga agcagagggt 360  
 gcagtggggc aagatcacac cactatactc tagcctgggc gacagagggt gggaaaaaag 420  
 taggacctct gtcctatatt cagggttttc tcacatatat gaacctatct aaattctacg 480  
 ttgttaaagg tagcttaggt taattagtct atactttatt aagaccaata tgggggtgaga 540  
 tggatttttt tttaaaaatc ctacagtaag gctttctact ttccttctaa tgaggaaaaa 600  
 ggtgacaaaa attcaagtgt caatgtcccc ttcttgggaa gaggtttaga aaaacaacag 660  
 ctacacctct gaactctacc agttcctttt tgaagtttaa ccgaagcatt aaaatcagat 720  
 gttaaaaaag aaaaaaaaaa ggcngggaaa atatttacaa aactgggaca ttctttacag 780  
 an 782

<210> 172  
 <211> 773  
 <212> DNA  
 <213> Homo Sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(773)  
 <223> n = A,T,C or G

<400> 172  
 canttgacct gatacgccaa cttggtaccg actcggacca ctagtaacgg ccgccagtgt 60  
 gctggaattc gccctttcga gcggccgccc gggcagggtac catcctgtgg ctcccttaagg 120  
 aggtcttctc ctttaattct ccatgaggca tccagggtgg tctgggctat gggagaagacc 180  
 cttcaacttg ggagtagaca ggtgctccaa ttcatagtgc ccattctcag aggccttggtg 240  
 tgtgagtttc tccttcatgc ctctctcttg gctcttcttg tgctccataa tctgctggag 300  
 ctggtgcccc gcatagtctg gcttgggtgg cagcgggcca gccggcacag ctacaccaag 360  
 gacatctgac accatgtagg ggcgcagcca gccaccaag ggagtgtctc cggggctgta 420  
 gtgggtctgt ttgtggtaga agagaagtcc atctacctca aaagggaat ccatagatag 480  
 cacatcacac aggtcttcgg gagtgcaagg gaagttcttt agccccaca atttaaaagg 540  
 attaaagctg gttttctctc ccagtccttc ttctctggtt aactttgaat gcatccagta 600  
 gaatcggaat tcaagtctgg caatcataaa aagggtgtcc ccgccagcac atcacattca 660  
 gaacgtagta ggtctggttt acctcattgt aaatgcaatc tagaatggtg taagcttttg 720  
 ctgntgaagt ttccctgtgc ctctggcaga atgaagaaan ctggtgacac aac 773

<210> 173  
 <211> 772  
 <212> DNA  
 <213> Homo Sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(772)  
 <223> n = A,T,C or G

<400> 173  
 ntgggcctct nnagctgctc gacggccgccc atgtgatgga tatctgcaga attcgccctt 60  
 agcgtgggtc cgcccgaggc acagttcctt ggagcagagt gagcgccgcc ggaggttact 120  
 ggaactgcag aaatccaagc ggctggatta tgtgaaccat gccagaagac tggctgaaga 180  
 tgactggaca gggatggaga gtgaggaaga aaaataagaa agatgatgaa gaaatggaca 240  
 ttgacactgt caagaagtta ccaaaacact atgctaatac attgatgctt tctgagtggg 300  
 taattgacgt tccttcagat ttggggcagg aatggattgt ggtcgtgtgc cctgttggaa 360

aaagagccct	tatcgtggcc	tccaggggtt	ctaccagtgc	ctacaccaag	agtggctact	420
gtgtcaacag	gttttcttca	cttctgccag	gaggcaacag	gcgaaactca	acagcaaaaag	480
actacaccat	tctagattgc	atttacaatg	aggtaaacca	gacctactac	gttctggatg	540
tgatgtgctg	gcggggacac	cctttttatg	attgccagac	tgatttccga	ttctactgga	600
tgcatcctaaa	gttaccagaa	gaagaaggac	tgggagagaa	aaccaagctt	aatcctttta	660
aattttgtggg	gctaaaagaac	ttcccttgca	ctcccgaag	cctgtgtgat	gtgctatcta	720
tggatttctt	tttgaggtag	atggacttct	cttctaccac	aaacagaccc	ac	772

&lt;210&gt; 174

&lt;211&gt; 780

&lt;212&gt; DNA

&lt;213&gt; Homo Sapien

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(780)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 174

acactatgac	ctgatacgcc	aagcttggtg	ccgagctcgg	atccactagt	aacggccgcc	60
agtgtgctgg	aattcgccct	tagcgtgggc	gcggccgagg	tacaaaaata	cattttttcca	120
catacaaaaag	agagaaaaaa	acaaagacat	gtggcgggtg	gcgaggggag	gcccattccc	180
aacacccctac	aaggttccat	ggaatggaga	aggaacaaaa	aaatcccaa	ttattttggg	240
gtaagatgtg	ccccagaaaa	ggtgaaatct	atgcaataaa	acccaggttt	tcttcaaattc	300
tagcatctag	gatttctatc	agagtttcaa	ataatcagaa	tttctatcag	aatttctacc	360
ctgaggtgac	acctactaac	tgtaggttct	ttcattaaaa	atgaagacat	ctttcaccag	420
aatgtatcaa	gctataaaac	tggcttcaga	gcctacactt	agccagagtg	gaaaaaaaaat	480
agtgcataatt	ttcgacagca	attttgaatt	gatgcttgag	gtctcaatcc	accagcaccc	540
agatatcatg	ttacctccct	cagttgaata	caagttaaaa	tgatgatctt	atcgagatct	600
caatagagca	cagtgcctct	catgtttcgg	gtaagaaggt	gggaggagga	atgaagccgg	660
gtattacacc	cagcccaatg	acagcttaag	ccttaacatg	cnggcattct	acaatgacca	720
taaacaaagg	angggccaag	canggctngc	gatcattact	ttgcgcacag	aatgccatgt	780

&lt;210&gt; 175

&lt;211&gt; 771

&lt;212&gt; DNA

&lt;213&gt; Homo Sapien

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(771)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 175

gggcctctag	agcatgctcg	agcggccgcc	atgtgatgga	tatctgcaga	attcgccctt	60
tcgagcggcc	gccgggcagg	tactaaaaca	gctttgctta	tgttggccag	gggaaaacat	120
ggcattctgt	gcgcaaagct	aatgatcgcc	agccctgcct	tgcccctcc	cttggttatg	180
gtcattgtaa	gatgcccgc	tggttaaggct	taagctgtca	ctgggctggg	tgtaataccc	240
gcttcattcc	tcctcccacc	ctcttaccgc	aaacatgaag	ggcactgtgc	tctattgaga	300
tctcgataag	atcatcattt	taacttgat	tcaactgagg	gaggtaacat	gatattctgg	360
tgctgggtga	ttgagacctc	aagcatcaat	tcaaaattgc	tgctgaaaat	atgcactatt	420
ttttttccac	tctggctaag	tgtaggtctt	gaagccagtt	ttatagcttg	atacattctg	480
gtgaaagatg	tcttcatttt	taatgaaaga	acctacagtt	agtaggtgtc	acctcagggt	540
agaaattctg	atagaaattc	tgattatttg	aaactctgat	agaaatccta	gatgctagat	600
ttgaagaaaa	cctgggtttt	attgcataga	tttcaccttt	tctggggcac	atcttaccct	660
aaaataattg	gggatttttt	tgntccttct	ccattccatg	gaaccttgta	gggtgtttgg	720
gattgggcct	tcctngcca	cccgccacat	gtctttggtt	ttttctctct	t	771

&lt;210&gt; 176

&lt;211&gt; 773

&lt;212&gt; DNA

&lt;213&gt; Homo Sapien

<220>  
 <221> misc\_feature  
 <222> (1) ... (773)  
 <223> n = A,T,C or G

<400> 176  
 atnnggcctc tagagcatgc tcgagcggcc gccatgtgat ggatatctgc agaattcgcc 60  
 cttagcgtgg tcgcgccgca ggtactcatg tatttttttt tttttccaga tctctttccc 120  
 caagttgcta ttgtaagagt attctgctgc gtgtggatgc agttatacac attaaagcag 180  
 atctggagtc tgaagtagct ataaagcagc tataaaacag aaatacatgc atagctgcag 240  
 aaaccatgat aggtagagga cttttctttt ggttttggtt tgttttggtt tgttttggtt 300  
 ttggttttac agagaagaga tttttattac aaagaaaaaa attccagtga attgtgcaga 360  
 aatgctgggt tttacaccat cctaaagaaa aactttacaa ggggtgtttg gaggtagaaa 420  
 aaggttataa agttggaatc ttaaattgta aaattaacca ttgagtgtca aagttctaaa 480  
 agcagaactc attttgtgca atgaacataa ggaaagacta ctgtataggt ttttttttcc 540  
 tcctttttaa tgaagaaaag ctttgcttaa gggttgcata cttttattgg agtaaatctg 600  
 aatgatccta ctcctttgga gtaaaactag tgcttaccag tttccaattg tatttagctt 660  
 ctggttgga tttgaaaaaa aaagaaaaaa agaaaaagaa aacctaaata aaataggtga 720  
 aagttccctg actattcagg tgaatacnca aaaaanaaan nnnnnnaann nnt 773

<210> 177  
 <211> 772  
 <212> DNA  
 <213> Homo Sapien

<220>  
 <221> misc\_feature  
 <222> (1) ... (772)  
 <223> n = A,T,C or G

<400> 177  
 acattngacc tgatacgcca gcttgggtacc gagctcggat ccactagtaa cggccgccag 60  
 tgtgtcgga ttcgccctta gcgtgggtgc ggccgaggta cagtaggaaa ataagaataa 120  
 caacgggcaa aatcttttta gaacatttat gctttatctg ttttagcttc taaaacaatc 180  
 ctgaaggatg aataattatc atgagtatag cagaatttaa ttttccctgt tgctccaaaa 240  
 ttttaatgaa aactttacgg ttgagagaaa taggtaaaata aaaaaacttc ctaaaattct 300  
 aaagacaatt gttgaataaa atttaagtga atgagtttgt gcttcattat taacttttaa 360  
 ctttccaata ggctttatta aatggaaaac tgaaatttac aaagtcttag agtagaagca 420  
 tttttatcct ggctagggat tctctaagag aaccagtagc accaagatgc actggaacag 480  
 tgcaacgaga gagttcatgc cttanggttt agaagcatac aagcaaaggg aatgggtgcc 540  
 acttcttact agaaaaattt cacaggctgg agtctgggag gaggagcctg ggatgacagt 600  
 agaagtgtgc aggaagcact aagtctagcc tgtacctgcc cgggcggncg ctcgaagggc 660  
 gaattctgca gatatccatc aactggcgag ccgctcgagc atgctctana gggcccaatt 720  
 cgccctatag tgagtcggat tacanttnaa tggccgncgt tttacaacgt cc 772

<210> 178  
 <211> 770  
 <212> DNA  
 <213> Homo Sapien

<220>  
 <221> misc\_feature  
 <222> (1) ... (770)  
 <223> n = A,T,C or G

<400> 178  
 attgggcccc tnnagcatgc tcgngcggcc gccagtgtga tggatatctg cagaattcgc 60  
 ccttcgagcg gccgcccggg caggtagcagg ctgacttag tgcctcctgc acacttctac 120  
 tgtcatccca ggctcctccg ccagactcc agcctgtgaa atttttctag taagaagtgg 180  
 gcaccattcc ctttgcttgt atgcttctaa accctaaggc atgaactctc tcgttgcaact 240  
 gttccagtc atcttggtgc tactggttct cttagagaat ccctagccag gataaaaaatg 300

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cttctactct aagactttgt aaatttcagt tttccattta ataaagccta ttggaaagtt 360
aaaagttaaa tatgaagcac aaactcattc acttaaatat tattcaacaa ttgtcttttag 420
aatttttagga agttttttta tttacctatt tctctcaacc gttaaagtttt cattaaaatt 480
ttggagcaac agggaaaatt aaattctgct atactcatga taattattca tccttcanga 540
ttgttttaga agctaaaaca gataaagcat aaatgttcta aaaagatttt gcccgttggg 600
attcttattt tcctactgta cctcggccgn gaccacgcta agggcgaatt ccagcacact 660
ggcgccgnt actagtggat ccgagctcgg tacccaanct tggcgtaatc atggncatag 720
ctgttcctgn gngaaatngn natncgntna caattncac acatacnann 770

```

<210> 179  
 <211> 502  
 <212> DNA  
 <213> Homo Sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(502)  
 <223> n = A,T,C or G

```

<400> 179
cnnnttgacn tgattcgcca acttggtacc gagctcggat ccctagtaac ggccgccagt 60
gtgctggaat tcgcccttag cgtgggtcgg gccgaggtag ctggccccc acttctcgaa 120
taaaatgaaa ctatgattct tggcctcact cactaccatg tgacattgat caaatcactt 180
cacctctcca aacctcagag tctttatctg taagatggaa aaagtaacac ctacttcagg 240
ggctgtcatg aggattaaat aaatgtgccc agcaggtagt aagtatacaa cacaaagcat 300
ctaattggtc attcatatcat ttgcttattt tgcaattatt ggccacctgc caatgttggg 360
cactgttcta ggcacagggg atacagcaag ggcaaacacc taactactgg tggaggggaag 420
acgataaaca aatacgtaaa gatttgtgcc aggtagtgat aaaagcaaag aatgactcat 480
ggagagggtc agctggggag ac 502

```

<210> 180  
 <211> 823  
 <212> DNA  
 <213> Homo Sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(823)  
 <223> n = A,T,C or G

```

<400> 180
gggccttnna gcattgctga cggccgccat gtgatggata tctgcagaat tcgccctttc 60
gagcggccgc ccgggcaggt actgcgtggt ctccccagct gacctctcc atgagtcatt 120
ctttgctttt atcactacct ggcacaaatc tttacgtatt tgtttatcgt ctccctcca 180
ccagtagtta ggtgtttgcc cttgctgtat ccctgtgccc tagaacagtg cccaacattg 240
gcaggtggcc aataattgca aaataagcaa atgtatgaat gaaccattag atgctttgtg 300
ttgtatactt actacctgct gggcacattt atttaatect catgacagcc cctgaagtag 360
gtgttacttt ttccatctta cagataaaga ctctgagggt tggagagggtg aagtgatttg 420
atcaatgtca catggtagtg agtgaggcca agaatacatg tttcatttta ttcgagaagt 480
tggggggccag gtacctcggc cgcgaccacg ctaaggggcg attccagcac actggcggcc 540
gttactagtg gatccgagct cggtagcaag cttggcgtaa tcatggtcat agctgtttcc 600
tgtgtgaaat tgttatccgc tcacaattcc acacaacata cgagccggaa gcataaagtg 660
taaagcctgg ggtgcctaata gagtgaagcta actcacatta attgctgtgc gctcactgcc 720
cgcttttcag tcgggaaacc tgtcgtgcca gctgcattaa tgaatcggcc aacgcgcgg 780
gaaaagcngn ttgcgtattg gggcgtcttt ncgctttctt gcn 823

```

<210> 181  
 <211> 501  
 <212> DNA  
 <213> Homo Sapien

<220>

<221> misc\_feature  
 <222> (1)...(501)  
 <223> n = A,T,C or G

<400> 181  
 cantatgacn tgattcgcca acttggtacc ngctcggatc cctagtaacg gncgccattg 60  
 tncctggaatn cgncccttagc gtggtcgcg cagaggtact ttcttcnttt nctnnaattt 120  
 tccataaacct agtgcengnt tgatnccctc acatggntgg ttcacatncn cngtacagan 180  
 gnccggnac catggganag ggcagcactc ntnccttctn angggatctt ggcctaangg 240  
 tgtacnaagg gagangatgg antntcttct gncctcncta nggcctaggg aacccagnag 300  
 canatccacac nacnccttctn atnttttnagc caaggagaag ccccttggtg acnttnagtt 360  
 ccaaccatta taencagtgn gagaatggat nntcctggtc ccaaccatta cagggtgaag 420  
 atatnaacag ttaaggaaga tacagtttng atgaggcctc anganggagc agntnacacc 480  
 atcatannca tatgcaggga a 501

<210> 182  
 <211> 830  
 <212> DNA  
 <213> Homo Sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(830)  
 <223> n = A,T,C or G

<400> 182  
 ggcccttnga ngcatgctcg acggccgcca tgtgatggat atctgcagaa ttcgcccttt 60  
 cgagcggccg cccgggcagg tacacgagaa gctccgagga tggctgaagt ccaacgtctc 120  
 tgatgcgggtg gctcagagca cccgtatcat ttatggaggc tctgtgactg gggcaacctg 180  
 caaggagctg gccagccagc ctgatgtgga tggcttctt gtgggtggtg ctccctcaa 240  
 gcccgaaatc gtggacatca tcaatgccaa acaatgagcc ccatccatct tccctacct 300  
 tcttgccaag ccagggaacta agcagccagc aagcccagta actgcccttt ccttgcatat 360  
 gcttctgatg gtgtcatctg ctccctctg tggcctcatc caaactgtat ctccctttac 420  
 tgtttatctc ttcacccctg aatggttggg accaggccaa tcccttctcc acttactata 480  
 atggttgga ctaaacgtca ccaaggtggc ttctccttgg ctgagagatg gaaggcgtgg 540  
 tgggatttgc tcttggttgc cctaggccct agtgagggca gaagagaaac catcctctcc 600  
 cttcttacac cgtgaggcca agatcccctc agaangcang agtgcttgcc ctcccatgg 660  
 tgcccggtgc tcttggtgctg ngatatgtga ccaccccatg tgagggaata aacctggcac 720  
 tangtctttg aaaaaaanaa aaacntnaaa aaaantccct tcggccgnga ccacgctaag 780  
 gnccaatcc ancacaatgg gcgnncgtna ctantggatc caaccttnt 830

<210> 183  
 <211> 484  
 <212> DNA  
 <213> Homo Sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(484)  
 <223> n = A,T,C or G

<400> 183  
 ttgacatgat acccaacttg taccgagctc ggatccacta gtaacggccg ccagtgtgct 60  
 ggaattcgcc cttttnagcg gccgcccggg caggtacccc agcccgcgcc actgagtttg 120  
 ctttctatcc gggatatccg ggaacctacc agcctatggc cagttacctg gacgtgtctg 180  
 tgggtgcagac tctgggtgct cctggagaac cgcgacatga ctccctgttg cctgtgggca 240  
 gttaccagtc ttgggtcttc gctgggtggc ggaacagcca gatgtgttgc cagggagaac 300  
 agaaccacac angtcctttt ttggaaggca gcatttgcag acttcaacgg gcaaaacctc 360  
 tgacgcctgc gcccttctgc gcggnccgag aaaccatttc gnactttaan attgaatctt 420  
 ctctaagggt ganaatttct ggatcccttg anaactttta canntgnnct ttantccntt 480  
 taaa 484

<210> 184  
 <211> 824  
 <212> DNA  
 <213> Homo Sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(824)  
 <223> n = A,T,C or G

<400> 184  
 ggccttagag ctgctcgacg gccgccatgt gatggatata tgcagaattc gcccttagcg 60  
 tggctcgcggc cgaggtacca gattggccac tctagggttag aacaccaggt agattcctaa 120  
 ggttctctgac tccaggccct ggctcccagt tggcatctct ggacctactt ggggtcacag 180  
 tgaactcact gccctgaagg gaagatgcct ggctggatat gccacctgct gattggagag 240  
 tccttggaac ttgagtgaac acaggtggta gccaggcagt gatcatcata ggccttgggt 300  
 gagccccagt gctgtgttg cttcaggtct gacacagagc tgctccagtg gtatgcgcca 360  
 cagggggtgct tgtgtcatca tcccttctcc agctccaggc agctcagcac agagacatag 420  
 tgtccatttg tttgagtga agtaaaagaa gagaacaaga gtctccacct agtaatccag 480  
 ggaattctcc cagatcttac ccaagacaac caaggcaaga gacacagcat tactgggctg 540  
 gaggtgcccc ctaatgcagg tatggctgca gtgaacaaag acttagatca caacacccaa 600  
 atcccttcta atagttggaa agccttncca agaaggatgc cggacaaaca agcccaaact 660  
 gtgaagacta caacaaatc ctaactcttt caatgcccag aactgaaga atatcccaa 720  
 ctttaagacc atccatgaaa acatgacctt accaacaagc taaataagac accagtgacc 780  
 aatcccagag agatagagat atgtgtcctt tcnnacagag aatt 824

<210> 185  
 <211> 499  
 <212> DNA  
 <213> Homo Sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(499)  
 <223> n = A,T,C or G

<400> 185  
 cacttgacnt gatacgccaa cttgtaccga ctcggtacca ctagtaacgg ccgccagtgt 60  
 gctggaattc gcccttagcg tggctcgcggc cgaggtactt tttctttttt nttntatttt 120  
 tttttttcgt cttcccaaaag ctttatctgt cttgactttt taaaaaagt tgggggcaga 180  
 ttctgaattg gctaaaaagac atgcattttt aaaactagca actcttattt ctttccttta 240  
 aaaatacata gcattaaatc ccaaataccta tttaaagccc tgacagcttg agaaggtcac 300  
 tactgcattt ataggacctt ctggtgggtc tgctgttacg tttgaagtct gacaatcctt 360  
 gagaatcttt gcatgcagag gaggtgaagag gtattggatt ttcacagagg aagaacacag 420  
 ccgcanaatg aagggccagg cttactgagc tgccaatgga gggctcatgg gtgggacatg 480  
 gnaaagaagg cacctagcc 499

<210> 186  
 <211> 504  
 <212> DNA  
 <213> Homo Sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(504)  
 <223> n = A,T,C or G

<400> 186  
 cacttgacnt gatacgccaa cttggtaccg agctcggtac ctagtaacg gccgccagtg 60  
 tgctggaatt cgcccttagc tgggtcgcggc ccgaggtacc tcaggagggtc tgcaagtgtg 120  
 tggttaggta aaaactganc tgtgcaaaact cactgtatcc aagctcttct catgagagag 180  
 cgaacaacc tggcaagctt aaaggcaagt gttttcgttc ttttaattaa ataggctgtg 240

```
acaaaattaa caataaaact agcccagaac caaccagccc ggtaagtgtc gtgcaaattct 300
tgcagtaaca aaagaccatc tgagagacta cacgttggtc tccagtccta gcaagcgtcc 360
cattctctnc acattcttat caattgtagc ttgacatgtt atctccttgg cacattccat 420
aggaaaccag cctctttctn catctcgtag tcgntccccc ttataccagc catcgctgac 480
acgtttgata gatgaagacg acgt 504
```

<210> 187

<211> 822

<212> DNA

<213> Homo Sapien

<220>

<221> misc\_feature

<222> (1)...(822)

<223> n = A,T,C or G

<400> 187

```
gggcctctna gctgctcgn cggcgccatg tgatggatat ctgcagaatt cgccctttcg 60
agcgggcgcc cgggcaggta cggcggggact ggggttttct cctttttagt ccttttcctt 120
tagtctcttc ttcccgggtg ttggtaaaaa gaggtgaatt gacagcctat gttgaagaca 180
ctgtgctttt ctcaagaagg acatccaaac agcaagtcta cttctttctc tttaacgatg 240
tgctcattat caccaagaag aagagtgaag aaagttacaa cgtcaatgat tattccttaa 300
gagatcagct attggtggaa tcttgtaga atgaagagct taattcttct ccagggaaga 360
acagctccac aatgctctat tcaagacaga gctctgccag tcacctctt actctgacag 420
tccttagtaa ccacgcgaat gaaaaagtgg agatgctact aggagctgag acgcagagcg 480
agcgagcccc ctggataact gccctgggac acagcagcgg gaagccgcct gcagaccgaa 540
cctcactgac ccagggtggaa atcgttaggt catttactgc taagcagcca gatgaactct 600
ccctgcaggt ggctgacgtc gtctcatct atcaacgtgt cagcgatggc tggatgagg 660
gggaacgact acgagatgga gaaagaagct gggttcctat ggaatgtgcc aaggagataa 720
catgtcaagc tacaattgat aagaatgtgg agagaatggg accttgctag gactggagac 780
caacgtgtag tctctcaaan gnccttttgg actgcaagat tg 822
```

<210> 188

<211> 504

<212> DNA

<213> Homo Sapien

<220>

<221> misc\_feature

<222> (1)...(504)

<223> n = A,T,C or G

<400> 188

```
tatgancatg atacgccaac ttggtaccga gctcggatcc actagtaacg gcccgccagt 60
gtgctggaat tcgcccttag cgtggtcgcg gccgaggtag caaaaaagta aacattgata 120
atatggcctg acaacaatca gatatgctaa gctctagaag caaaagcaag gtaggattgc 180
ctccaaatgt tgacaggtat tagccatacc acagtaacta gatctaattg gagggctaaa 240
tgcttgagga ggcagaaccc taaaggatgc ttagttatag ctccatgctg ccgcccagtg 300
gcttgatgct ccattacacc ctccctggat ccaaccttc attaaggctg aaggctctag 360
agggcagagt attcaagatg ttagatctgg tccaagccca aattctagag ttaaaagcag 420
aggggttctt agtggctgaa aaaaaacaaa acctgatgac atttgggact ccagttttga 480
ggaaaggctc tgatgatgag gctt 504
```

<210> 189

<211> 842

<212> DNA

<213> Homo Sapien

<220>

<221> misc\_feature

<222> (1)...(842)

<223> n = A,T,C or G

```

<400> 189
nnnnnnnnntt ttggaaccgg ccctntnang catgctcgac ggccgccatg tgatggatat    60
ctgcagaatt cgccctttcg agcgcccgcc cgggcaggta cccttctcgc ttttgccatt    120
agccaaggat agaagctgca gtggatttaa ttttgatata atctttcaaa ccagcttcat    180
gtggcttccc ttttctttgt tcaagatgag ggccaggagg ggaaacatca cacctgccct    240
aaaccctgtt cctggagggtc agcatttgat ctgttgcaag cccctctttc tgtccctct    300
tctacacctg cctcccatga ctttgctoct cacacttttg gaaccatgcc ttccgggggg    360
gcccattctt tctggccgtc cttgtctctg ggccacttgg agtgtgtgat aaatcagtca    420
agctgttgaa gtctcaggag tctctggtag cctgcagaag taagcctcat catcagagcc    480
tttccctaaa actggagtc caaatgtcat caggttttgt ttttttcag ccactaagaa    540
cccctctgct tttaactcta gaatttgggc ttggaccaga tctaactct tgaatactct    600
gccctctaga gccttcagcc ttaatggag gtggatcca aggagggtgt aatggagcat    660
caagccactc ggccgcagca tggagctata actaagcatc ctttaggggt ctgcctctcc    720
aggcatttag cccctacatt agatctagtt actgtggtat ggctaatacc tgtcaacatt    780
tggaggcaat cctaccttgc ttttgcttct agagcttagc atatctgat gttgcaggcc    840
cg                                                    842

```

```

<210> 190
<211> 503
<212> DNA
<213> Homo Sapien

```

```

<220>
<221> misc_feature
<222> (1)...(503)
<223> n = A,T,C or G

```

```

<400> 190
actatgacct gattacgcca agcttggtac cgagctcgga tccctagtaa cgcccgccag    60
tgtgctggaa ttcgcccttt cgagcgcccg cccgggcagg taccatgctg acttcttggt    120
atcttttaag gcctaatttt cccttccttg agattactgt agtgtgttcc agctaatttc    180
tatttgaaa cgagttggaa cagctgaaaa ctaggattta ttgaaggcaa agcagcctca    240
cgtcagtttt ttatcagctc atttgggaag tttttttttt ttttttttaa ttaattagaa    300
agtaggctgg acacgggtgg tcatgcctat aatcccagca cttggggagg ccgaggatct    360
cctctctggt ggatcacttg agggcaggag ttaagagacc atcctggcca acatgatgaa    420
accctgtctc tactaaaaat acaaaaagta nctgggcgtg gtggcatact cttacaatcc    480
cagctacttg ggaggctgag gca                                                    503

```

```

<210> 191
<211> 829
<212> DNA
<213> Homo Sapien

```

```

<220>
<221> misc_feature
<222> (1)...(829)
<223> n = A,T,C or G

```

```

<400> 191
gggcctctga gcatgctcga cgcccgccat gtgatggata tctgcagaat tcgcccttag    60
cgtggctcgc gccgagggtac tttttttttt tcttttttta catctgattt taatgcttcg    120
ttaacttcaa aagggaactgg tagagttcag aagggtgagct gttgtttttc taaacctctt    180
cccaggaagg ggacattgac acttgaattt ttgtcacctt ttccctcatt agaaggaaag    240
tagaaagcct tactgtagga tttttaaaaa aaaatccatc tcaccccata ttggtcttaa    300
ataagtatag actaattaac ctaagctacc ttttaacaac tagaatttag atgggttcat    360
atatgtgaga aaaacctgaa tataggacag gggctcctact tttttcccca cctctgtcgc    420
ccaggctaga gtatagtggg gtgatcttgg ccactgcaa cctctgcttc ctagggtcaa    480
gtgattctcc tgcctcagcc tcccaagtag ctgggattgt aagagtatgc caccacgcc    540
agctactttt tgtattttta gtagagacag ggtttcatca tgttggccag gatggtctct    600
taactcctgc cctcaagtga tccaccagag aggagatcct cgccctnccc aagtgtctgg    660
attataggca tgagccaccg tgtccagcct actttctaat taattaaaaa aaaaaaaaaa    720

```



aaactttcca aatgagctga taaaaaactg acgtgaggct gctttgcctt caataatacc 780  
tagttttcag ctgtccaact cgtttccaaa tagaaattaa gctgggang 829

<210> 192  
<211> 503  
<212> DNA  
<213> Homo Sapien

<220>  
<221> misc\_feature  
<222> (1)...(503)  
<223> n = A,T,C or G

<400> 192  
ntatgaccat gattacgcca agcttggtac ccgagctcgg atccactagt aacggccgcc 60  
agtgtgctgg aattcgccct ttcgagcggc cgcccgggca ggtactgcct ttgggcttct 120  
tctctctcct gttttctcct ctgcaattct ttactgtttt aatacattgt tcttctggct 180  
gaggctggtc aaagctacac tgatcttcaa ataaaggctc gtcaatgcta cactgttctt 240  
caagcaacgg ctggtgaact tgttctgaca aaggatggtc gaactttctt gcttgcttcc 300  
tatgtctttc ctcttcagct aaatagagat gtttcagatt atctgggtat cgatctgtga 360  
attgagattc cagtgcggtt tgagccttct tttccttcgg tagcaatttc ttgtaacttt 420  
gctgtatttt cagttttctt cgaaaagcaa agccttgtcc ctgcggaacg ctccccacga 480  
agcttgccggg tggtagggcc gca 503

<210> 193  
<211> 834  
<212> DNA  
<213> Homo Sapien

<220>  
<221> misc\_feature  
<222> (1)...(834)  
<223> n = A,T,C or G

<400> 193  
ancggctctc tagagctgct cgacggccgc catgtgatgg atatctgcag aattcgccct 60  
tagcgtggtc gcggnccgag gtacaattca ttatgtgttt cattaattac ctttattaaa 120  
aacaacacaa ttatattaca atagggacaa aaaatgttta agcaaatgaa aacgaaacca 180  
tgacataccc aaactcagga ggaggcaaca aaggcagtcg taaagggaag cttacagctc 240  
cagatgctta aattaaaaag aagaaagatc tcaaacccat gctaaaggga agcttacagc 300  
tacagatcct taaattaaaa agaagaaaga tctcaaaccc atgctaaagg gaagcttaca 360  
gctgcagatg cttaaattaa aaagaagaaa gatctgaaac ccttgctaaa gggaagctta 420  
tagctgcagg tgcttaattt aaaaagaaga aagatctcaa atcaataacc taacattaca 480  
cctgaagggg gggaaaaaaa ctaatgacaa accaagcaaa aggaagaaaa taacagatta 540  
gagcagagat aagcagaata agaccagaaa aaaggaaaaa aacactgagt ttgttttttt 600  
aaagatcaat aaaaatttta aaactcacag ctatattaag aaaaaagaga aatctcaaat 660  
actaaaatca taagtaaaag angtgacagt acaggaataa gaatgtgaga cagaagacat 720  
ggcggcctac caccgcgaag ccttcgtggg gagcgttcgc ganggacaag gctttgcttt 780  
tcgaagaaaa ctgaaaatnc cgcaaagttc cagaaattgt tcngaagaaa agaa 834

<210> 194  
<211> 502  
<212> DNA  
<213> Homo Sapien

<400> 194  
cacttgacct gattcgccaa gcttggtacc gagctcggat ccctagtaac ggccgccagt 60  
tgctgtggaat tcgccctttc gagcggccgc ccgggcagga cgctgaggcc tgggagtctc 120  
ttgactccac tacttaattc cgtttagtga gaaacctttc aattttcttt tattagaagg 180  
gccagcttac tgttggtggc aaaattgcca acataagtta atagaaagtt ggccaatttc 240  
accccathtt ctgtggtttg ggctccacat tgcaatgttc aatgccacgt gctgctgaca 300  
ccgaccggag tacctcggcc gcgaccacgc taaggcgcaa ttctgcagat atccatcaca 360

```

ctggcgccg ctcgagcatg catctagagg gcccaattcg ccctatagtg agtcgtatta 420
caattcactg gccgtcggtt tacaacgtcg tgactgggaa aacctggcg ttaccaact 480
taatcgctt gcagcacatc cc 502

```

```

<210> 195
<211> 848
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1)...(848)
<223> n = A,T,C or G

```

```

<400> 195
gnnnnnnntt tnnaatgggc ctctnnagca tgctcgagcg gccgccatgt gatggatatc 60
tgcagaattc gcccttagcg tggtcgcgcc cgagggtactc cggtcggtgt cagcagcacg 120
tggcattgaa cattgcaatg tggagcccaa accacagaaa atggggtgaa attggccaac 180
tttctattaa cttatgttgg caattttgcc accaacagta agctggccct tctaataaaa 240
gaaaattgaa aggtttctca ctaaacggaa ttaagtagtg gagtcaagag actcccaggc 300
ctcagcgctc gcccgggcg gccgctcgaa agggcggaatt ccagcacact ggcgggcggt 360
actagtggat ccgagctcgg taccaagctt ggcgtaatca tggtcatagc tgtttcctgt 420
gtgaaattgt tatcgcgtca caattccaca caacatacga gccggaagca taaagtgtaa 480
agcctggggg gcctaagtga tgagctaact cacattaatt gcgttcgct cactgcccgc 540
tttccagtcg ggaaacctgt cgtgccagct gcattaatga atcggccaac gcgcggggag 600
aggcggtttg cgtattgggc gctcttccgc ttctcgtc actgactcgc tgcgctcggg 660
cgttcggctg cggcgagcgg tatcagctca ctcaaaggcg gtaataccgg tattcacaga 720
attcagggga taacgcagga aagaacatgt gagcaaaagg ncagccaaag gccaggaacc 780
cgtnaaaagg ccgcgttgct ggcgttnttc cataggctcc gcccccttga cgagcatnac 840
aaaaatct 848

```

```

<210> 196
<211> 511
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1)...(511)
<223> n = A,T,C or G

```

```

<400> 196
canntatgac ctgattacgc caagcttggt accgagctcg gatccactag taacggccgc 60
cagtgtgctg gaattcgccc ttagcgtggt cgcggccgag gtactttttt tttttttttt 120
ttttttttt ttttagggtt ataaaagccc ttttataaag ccatttttaa acaaaacaaa 180
aaaaagttt acaaaagaaa aaaagatnca gaaaaagaat aacttgcttc atatgtcca 240
aaaagagaaa aaaataaaagg ggacaatgcc aacatgctca acaataaagg cttctttttc 300
ttattttttt aatacaaaat ncaagcaaag gatacacata cttaaaacag agctcaggag 360
canacacgca ntcctggaaa cccttcaata aancaaaagc aggagtttgn tttttctttg 420
tctatgcana tacatacaga gactgggata tgtaaaaatt aagtatnaca aaagaccatt 480
acacgattct accaatgcat gttgcatctn g 511

```

```

<210> 197
<211> 816
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1)...(816)
<223> n = A,T,C or G

```

<400> 197  
gggcctctag agcatgctcg acggccgcca tgtgatggat atctgcagaa ttgcccttt 60  
cgagcgcccg cccgggcagg tactaaggaa gttaaagttt gaatgtaacc actttattta 120  
aaagggtttt ttctttaatt taaatgaaat ggggttgaag tgaacatgat tttgttgacc 180  
atgttcgtga attacagatg caacatgcat tggtagaatc gtgtgatggg cttttgtgat 240  
acttaatttt tacatatccc agtctctgta tgtatctgca tagacaaaga aaaaacaaac 300  
tcctgctttg cttttattga agggtttcca ggactgcgtg tctgctcctg agctctgttt 360  
taagtatgtg tatcctttgc ttgtattttg tattaataaa ataagaaaaa gaagccttta 420  
ttgttgagca tgttggcatt gtccctttta tttttttctc tttttgggac atatgaagca 480  
agttattctt tttctgtatc tttttttctt ttgtaaaact tttttttgtt ttgtttaaaa 540  
atggctttat aaaagggtt ttataaccct aaaaaaaaaa aannnnnnna aaaaaaaaaa 600  
gtcctcgccg gcgaccacgc taaggcgcaa ttccagcaca ctggcggnccg ttactagtgg 660  
atccgagctc ggaccaagct tggcgtaatc atggncatag ctgttcctgt gtgaaatgtt 720  
atccgctcac aattcccaca catacaaccg ggagcataaa gtgtaaacct ggggtgccta 780  
atgagtgagc tactcaataa ttgcgttgcg ctccang 816

<210> 198  
<211> 498  
<212> DNA  
<213> Homo Sapien

<220>  
<221> misc\_feature  
<222> (1) ... (498)  
<223> n = A,T,C or G

<400> 198  
tgattcgcca agcttggtac cgagctcgga tccactagta acggcccgcc agtgtgctgg 60  
aattcgccct tcgagcggncc gncgggcag gtacaattca gagcagggtg ccatagaaac 120  
aactaggntt gaaaaaactg taagacaatt cacagttgaa atcaaaccac cactgtgaat 180  
gtgttaaata cttgccatat aacaacactt taacattgat cttgctaaat aaggctatga 240  
ttcataagat gcatggattt ccaaagctgn ttaacattct tataaattaa ttcacaggat 300  
tcaaatagtt gcttttttagc ttcaactggg tattagcaaa aatnatacaa aatgatcccc 360  
gtgcaagcac aaattttacct tccttctaaa taaaacatga cagattatat tacaacttga 420  
tagcctctct tttaaaaagt ctgtgacatt attaaagagg tgacggaatg cttgntttgc 480  
aaacccaac acatcttt 498

<210> 199  
<211> 837  
<212> DNA  
<213> Homo Sapien

<220>  
<221> misc\_feature  
<222> (1) ... (837)  
<223> n = A,T,C or G

<400> 199  
nnnnnnntnn cantgggect ctgagctgctc tcgacggccg ccatgtgatg gatattctgca 60  
gaattcgccc ttagcctggg cgcgccgag gtaccttgag atctgagcaa ctgtgttaat 120  
gaagtaatag caatgggtcca cagtgaaga tgtgttgagg ttgcaaaac aagcattccg 180  
tcacctcttt aataatgtca cagacttttt aaaagagagg ctatcaagtt gtaatatat 240  
ctgtcatggt ttatttagga aggaaggtaa atttgtgctt gcacggggat cattttgtat 300  
tatttttgc taaacccagt tgaagctaaa aagcaactat ttgaatcctg tgaattaatt 360  
tataagaatg ttaaaccagc ttggaaatac atgcatctta tgaatcatag ccttatttag 420  
caagatcaat gttaaagtgt tgttatatgg caagtattta acacattcac agtgtttgtt 480  
tgatttcaac tgtgaattgt cttacagttt ttcaaacct agttgtttct atggacacct 540  
gctctgaatt gtacctgccc gggcgggccg tcgaaggcg aattccagca cactggcgcc 600  
cgttactagt ggtaccgagc tcggtaccaa gcttggcgta atcatgggtc tagctgnttc 660  
ctgtgtgaaa ttggtatccc gctcacaatt ccacacaaca tacgagccgg aagcataaag 720  
tgtaaagcct ggggtgccta atgagtgagc taactccatt aattgcgttg cgctcactgg 780  
cccgttttnc agtcnggaaa cctgtctgcc anctgcatta atgaatcggc caccgccg 837

<210> 200  
 <211> 506  
 <212> DNA  
 <213> Homo Sapien  
 <220>  
 <221> misc\_feature  
 <222> (1)...(506)  
 <223> n = A,T,C or G

<400> 200  
 nnnnttgacc tgattacgcc aagcttggtg ccgagctcgg atccactagt aacggccgcc 60  
 agtggtgctg aattcgccct tagcgtggtc gcggccgagg tactgcatcc ataatttatc 120  
 gccatgtgca acagctttgc gttttctaag gcacaatttt taatgaaatg atgtgtagat 180  
 ttcaatctaa taacagctca tccaaatgac aaatatggtc gaaatccctc cagtggctga 240  
 ggaaatttct gcacctatat ggaaccaca tgcaaagaac ccacttagca tgtaataaat 300  
 aatcgctagc cactactcaat aagacacgga aaaattattg cttacataac agaaaaacat 360  
 ctacttgacc cccttttatg actacatcaa tctattagga gtgtatccat agtctacatt 420  
 cacaaaatgt catcttgact tatttgccat tgatttaagg cagaataaat agtccccctt 480  
 tccccagtct taacaacaaa aaacaa 506

<210> 201  
 <211> 864  
 <212> DNA  
 <213> Homo Sapien  
 <220>  
 <221> misc\_feature  
 <222> (1)...(864)  
 <223> n = A,T,C or G

<400> 201  
 ccnntanagc atgctcgacg gccgcccggg caggtagcctt ggaagttagt tcattaatat 60  
 aggctgggtc atcaataaaa gcaaaacctt gcaatatcag ctagatttac actccgggac 120  
 gttgcccaaa ggtaggaaga aagcaggggg aaatatattca gtcattcatt ccaaagtcac 180  
 tatcaaaatc tgtgagggaag tttaattcttc caaagagtca atgtcagaca tcaggcctct 240  
 gttgcctgct tctctcgagg cactagatta ggagtcttca ataagagact taacatgagg 300  
 tatatggaag atgaggcacc gagataagtt catcattagg tgtgagcact gctcaccctt 360  
 gctggcaagt tctccttaag ggctgaagc acagggtgtcc aaagaaaagc gttaagtcca 420  
 tcttaataga atctatgtgg tatatgatgt ggtcagcccc tggctctgtga tcagcaagaa 480  
 cctacagcac agattatgcc ctgcccactt caatgaatac ctactctcct ncattctcca 540  
 tcaacttttt gctatcaaga ctccggacct tgcccatgga gaagttaga gaggaactct 600  
 tgtggagagc tggttaattt tctgcctgtg gcgacaagtt tcaacttggc caagaaangg 660  
 agtcaagtta ttaaaaagca tcacaatgta gaactctcca ggctgggttt tttggntttt 720  
 tnggtggttn aanactgggg gnaaaagggg ggacctattt aaattccngg cctttaaaat 780  
 caaatgggcc aaaattaagt tcaaggaatg gaccattttt nggggnaaat ggttngaacc 840  
 ttntnggan ttccncctt ccct 864

<210> 202  
 <211> 505  
 <212> DNA  
 <213> Homo Sapien  
 <220>  
 <221> misc\_feature  
 <222> (1)...(505)  
 <223> n = A,T,C or G

<400> 202  
 gnntnanacn ntnactaat antganttag tnccgactcg atccctctna ctncantnan 60  
 ancngtngaa ttgcccttnn tagcggccnt ccngncaggt acaaccagtt tggaaaacag 120

tntcacagtt	tttttaaaaa	ttacatatat	aaccancaac	tgacccagcc	atttcactcc	180
taggtattta	cccaagatna	actgaagtgt	agatacaagc	anagacttgn	gcacaagtgt	240
tcatggttaag	ctttactngc	antagctcca	aactanggac	aactcaaata	gccaacangg	300
aaatggacaa	attatgttac	tttcatacac	tggaatattc	tcttgatgata	aaaataantg	360
aacanttgat	acatggatga	atctcaaaat	aattatgctg	agtaaaaagaa	gccagacaaa	420
atgtacagtg	catacagcta	ttcatgtggg	tgccagctcc	atcccccagt	gacctcttca	480
tacggnacaga	gggtggcatg	gcanc				505

&lt;210&gt; 203

&lt;211&gt; 819

&lt;212&gt; DNA

&lt;213&gt; Homo Sapien

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(819)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 203

ggcctcngca	gcatgctega	ncggccgcca	tgtgatggat	atctgcagaa	ttcgccttta	60
gcgtggtcgc	ggccgaggtg	cgccgggagag	caggaccgga	gcgcggggcca	agctggagat	120
ggatgatgct	gacctgagg	aaagaaacta	tgacaacatg	ctgaaaatgc	tgtcagatct	180
gaataaggac	ttggaaaagc	tattagaaga	gatggagaaa	atctcagtgc	aggcgacctg	240
gatggcctat	gacatggttg	tgatgcgcac	caaccctacg	ctggccgatt	ccatgcgtcg	300
gctggaggat	gccttcgtca	actgcaagga	ggagatggag	aagaactggc	aagagctgct	360
gcattgagacc	aagcaaaagg	tgtagggccc	actggcccac	cacagctgcc	atgccaccct	420
ctgcccgtat	gaagaggtca	ctgggggatg	gagctggcac	ccacatgaat	agctgtatgc	480
actgtacatt	ttgtctggct	tcttttactc	agcataatta	ttttgagatt	catccatgta	540
tcaattgttc	acttattttt	atcacaagag	aatattccac	tgtatgaaag	taacataatt	600
tgctccatttc	ctgtttggct	atttgagttg	tccctagtgt	ggagctattg	cgagtaaaag	660
taccatgaac	atttgtgcac	aagtcctttg	ttgtatctac	acttcagttt	atcttgggta	720
aatacctang	agtgaatgg	cttgggtcaa	tntgttggtt	ggatatgtaa	ttttttaaaa	780
aaaactngna	tactgttttc	caaactgggt	tgtccctct			819

&lt;210&gt; 204

&lt;211&gt; 840

&lt;212&gt; DNA

&lt;213&gt; Homo Sapien

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(840)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 204

gnnnnnnttn	nnctnntgga	acccgttttg	nnaagctgct	cgacggccgc	catgtgatgg	60
atatctgcag	aattcgccct	tagcgtggtc	gcggccgagg	taccttnaga	tctgagcaac	120
tgtgttaatg	aagtaatagc	aatggtccac	agtgaagat	gtgttggggg	ttgcaaaaca	180
agcattccgt	cacctcttta	ataatgtcac	agactttttt	aaaagagagg	ctatcaagtt	240
gtaataataat	ctgtcatggt	ttatttagga	aggaaggtaa	atttgtgctt	gcacggggat	300
cattttgtat	tatttttgct	aatacccagt	tgaagctaaa	aagcaactat	ttgaatcctg	360
tgaattaatt	tataagaatg	ttaaacagct	ttggaaatac	atgcatctta	tgaatcatag	420
ccttatttag	caagatcaat	gttaaagtgt	tgttatatgg	caagtattta	acacattcac	480
agtgtttggt	tgatttcaac	tgtgaattgt	cttacagttt	tttcaaacct	agttgtttct	540
atggacacct	gctctgaatt	gtacccctca	gtcaccagca	aaagcatttc	cacccctttc	600
aacccccaat	cagaccactg	cattcagtg	tattggagga	ctttcatcac	agcttccagt	660
aggtgggtct	tggcacaggc	agnctgactg	gtatangaac	tgggtgctct	ggactccctg	720
cagtgaataa	cgaccctttt	gtacctgccc	gggcggccgc	taagggcgaa	ttccacacac	780
tggccggccg	ttactagtng	gategnaact	cggtcctaaan	cttggcggtat	tcatggtent	840

&lt;210&gt; 205

&lt;211&gt; 497

<212> DNA  
<213> Homo Sapien

<220>  
<221> misc\_feature  
<222> (1)...(497)  
<223> n = A,T,C or G

<400> 205  
nnnnttgacc tgattacgcc aagcttggtg cggagctcgg atccactagt aacggccgcc 60  
agtgtgctgg aattcgccct tagcgtgggc gggccgagg tacatttact ataaaagctg 120  
ttgcatttta gacaacttgt tgtttttatt ttttactggt tctcagaggc attttagaat 180  
aaatacttta aatgaaagt agtataaccg atatagaaca ctggcccacc cagagcagta 240  
acatcttttg gacggactca catatgaggt ggatcatttc agtttggtta atcttacct 300  
gtgtatagat aactataata tgtattgcat taatcacact acatagaaag gaaatgtcat 360  
ggaagtgcg tagtgaaaaa caaaaagtta ccattattt ttattaaaga gtagggacta 420  
gcttttgagg tatgagaaaa aaaatcagat atacttcctc aggaacaata aatcactcac 480  
ttgcctcacc tgttttt 497

<210> 206  
<211> 820  
<212> DNA  
<213> Homo Sapien

<220>  
<221> misc\_feature  
<222> (1)...(820)  
<223> n = A,T,C or G

<400> 206  
gggcctntag aagcatgctc gagcggccgc cagtgtgatg gatattctgca gaattcgccc 60  
tttcgagcgg ccgcccgggc aggtacatgt attgaagcta gaatcgagtc aagaaaaata 120  
aagccocatt ctccaactgc aaaatgtgct ttcccataat gaacactagt caccagcaca 180  
gaataatctc caacattttc taaattctaa ttgccaaactg tttctattta tatttgattt 240  
atatttcatt tggagtctgt tacatggcag cttaggcaga ctagatcttg tttttccaa 300  
tgcagcataa tgagtatgat ctatttcttt tcaaataatc tttgagatcc caggaaaaaa 360  
aatgctctgc tccattgagc tataatgtaa atgtgtttgt ttaaaaaaca ggtgaggcaa 420  
gtgagtgatt tattgttcct gaggaagtat atctgatttt ttttctcata ctccaaaagc 480  
tagtccctac tctttaataa aaataatggg taactttttg tttttcacta gcgaacttcc 540  
atgacatttc ctttctatgt agtgtgatta atgcaatata tattatagtt atctatacac 600  
agtgtaaagat ttaacaaaact gaaatgatcc acctcatatg tgagtccgct caaaagatgt 660  
tactgctctg ggtgggccag tgttctatat cgggtatact aactttcatt taaagtattt 720  
attctaaaat gcctctgaga aacagtaaaa ataaaaacca caagttgcta aaatgcaaca 780  
gcttttatag taaatgtcct tgggccgcga ccacgcttag 820

<210> 207  
<211> 496  
<212> DNA  
<213> Homo Sapien

<220>  
<221> misc\_feature  
<222> (1)...(496)  
<223> n = A,T,C or G

<400> 207  
cnnttgacct gattacgcc aagcttggtac cgagctcggg tccactagta acggccgcc 60  
gtgtgctgga attcgccctt agcgtggtcg cggcccaggg tacaaaaagac aaaatcagag 120  
ttcaatttca gcagcaagac ttatcaagaa tttaatcact atttgacatc aatggttggt 180  
tgcctgtgga cgtccaaacc ctttgggaaa ggaatatata ttgacctga aatcctagaa 240  
aaaactggag tggctgaata taaaaacagt ttaaagttag tccatcatcc ttctttcttg 300  
agttacgctg tttctttttt gctacaggaa agcccagaag aaaggacagt aaatgtgagc 360

tctattcngg	gaaagaaatg	gagctgggtat	ttggactatt	tattttcaca	nggggtacaa	420
ggcttgaaac	tttttataag	aagtagtggt	catcattctt	ncattcccag	agcagaaggc	480
ataaactgca	caatca					496

<210> 208  
 <211> 810  
 <212> DNA  
 <213> Homo Sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(810)  
 <223> n = A,T,C or G

<400> 208						
gcatgctcga	cggcccgcca	gtgtgatgga	tatctgcaga	aattcgccct	ttcgagcggc	60
cgcccgggca	ggtactcctt	gaggatggca	gtctgtcagt	gaaatgaaaa	tgggaactca	120
agatgagcca	ctttgctcta	gcaatgagga	gtgagtttag	tccagtgtgt	tcagtttatg	180
tcaacattca	tttaatatgg	attggtgcag	tttatgccct	ctgctctggg	aatggaagaa	240
tgatgaacac	tactttcttat	aaaaagtttc	aagccttgta	acccctgtga	aaataaatag	300
tccaaatacc	agctccattt	ctttccccga	atagagctca	catttactgt	cctttcttct	360
gggcttttct	gtagcaaaaa	ggaaacagcg	taactcaaga	aagaaggatg	atggactaca	420
tttaaaactgt	ttttatattc	agccactcca	gttttttcta	ggatttcagg	gtcaatatat	480
attccttttc	caaagggttt	ggacgtccac	aggcaaccac	ccattgatgt	caaatagtga	540
ttaaattctt	gataagtctt	gctgctgaaa	ttgaactctg	attttgtctt	ttgtacctcg	600
gccgcgacca	cgctaagggc	gaattccagc	acactggcgg	ccggtactag	tggatccgag	660
ctcgggtcaa	gcttggcgta	atcatgggca	tagctgtttc	ctgggtgtgaa	attgntatcc	720
gctcacaatt	ccacacaaca	tacgaaccgg	aagcattaag	tgtaaagcct	ggggtgccta	780
atgagtgagc	taacttacat	taattgcgnt				810

<210> 209  
 <211> 495  
 <212> DNA  
 <213> Homo Sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(495)  
 <223> n = A,T,C or G

<400> 209						
cnnttgacct	gattacgcca	agcttgggtac	cgagctcgga	tccctagtaa	cggccgcccag	60
tgtgctggaa	ttcgccctta	gcgtgggtcgc	ggccgaggta	caactctcca	gggcacaata	120
cgtttacagc	tgcctttcct	tcacatactt	ttctaattca	gaactactca	caattctaag	180
caaattccca	ttcacaaga	atgtccataa	tgcgaccttc	tcttttttta	acataacat	240
cttaaaaaaac	aaatatataa	aaaattctta	ttttgctgga	atgctttcaa	tttttcacat	300
tttacatgat	catcacattt	atttcttata	ttgaaaggca	tggtttctgt	tgacatgtcg	360
tgcaaagcca	aaaaaaaaaa	aaaaaaaaaa	aagggtctgga	ttgcttttca	attggtctaa	420
cacttttctt	tgtctaggct	ttggatttta	aagttcatga	cagccccacc	accagtagaa	480
accccaaggc	ttgca					495

<210> 210  
 <211> 820  
 <212> DNA  
 <213> Homo Sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(820)  
 <223> n = A,T,C or G

<400> 210

gggcctcaga	gctgctcgan	cgcccgccat	gtgatggata	tctgcagaat	tcgccctttc	60
gagcgggcgc	ccgggaggt	acccacgttt	tgctccacac	tccttgaccg	caggggctcg	120
gacacaaacc	cctgtcacca	ggagagtcag	tcagcactac	ttgggagggc	taaagggaaa	180
tttggaata	aaattccaaa	gtttggagta	aaaaaattca	agtgttgatt	ttatatctt	240
tcctttctg	acacagccta	aagcgtaggg	ggaacatgtg	tttatctgtg	ggagataaac	300
aagatggagt	cccaaagact	ttacaaaaat	atTTTTTTaa	aaatccacta	gaatagaaaa	360
tacattattt	agatatactt	tatgctgaga	gtgagtatat	atgcttgtcc	tatttaaaact	420
tgtgagaaaa	agtggtatcc	cttgatacat	ttagaaatat	gggggctatc	ttgtttcatt	480
gtgggggtgg	ggcagaagga	gaataaatgc	aggatgaccc	tgttgaagga	atcttancat	540
ggccaacagg	ggacgtttcc	agtcgattac	caggaaatgc	aagccttggg	gtttctactg	600
gtggtggggc	tgctcatgaac	tttaaaatcc	aaagcctaga	caaggaaaag	tgtttagacca	660
attgaaaagc	aatccagccc	tttttttttt	nnnnTTTTTT	tttggcttgg	cacgacatgt	720
caacagaaac	catgcctttc	aatntaagga	aataaatgtg	atgatcatgt	aaaatgtgaa	780
aaattgaaag	cattncacca	aataaggaat	tttttatttn			820

&lt;210&gt; 211

&lt;211&gt; 499

&lt;212&gt; DNA

&lt;213&gt; Homo Sapien

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(499)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 211

canttgactg	attacgcaa	gcttggtagc	gagctcggat	ccactagtaa	cgcccgccag	60
tgtgctggaa	ttcgccctta	gcgtggtagc	ggcccgaggt	acaactctcc	agggcacaa	120
acgtttacag	ctgcctttcc	ttcacatact	tttctaattc	agaactactc	acaattctaa	180
gcaaatcccc	attcacgaag	tctgtccata	atgcgcacct	ctcttttttt	aacatatata	240
ttttaaaaa	caaatatata	aaaaattctt	atTTTTGctg	aatgctttca	atTTTTcaca	300
ttttacatga	tcatcacatt	tatttcttat	attgaaaggc	atgggtttctg	ttgacatgtc	360
gtgcgaagcc	aaaaaaaaaa	aaaaaaaaaa	aagggtgga	ttgcttttca	atngggtcta	420
acacttttcc	ttgtctaggc	tttgattttt	aaagttcatg	acagccccac	caccagtaga	480
aaccccaagg	cttgcatttt					499

&lt;210&gt; 212

&lt;211&gt; 821

&lt;212&gt; DNA

&lt;213&gt; Homo Sapien

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(821)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 212

gggcccantan	agcatgctcg	agcgcccgcc	atgtgatgga	tatctgcaga	attcgccctt	60
tcgagcgggc	gcccgggcag	gtacccacgt	tttgctccac	actccttgac	cgcaggggct	120
cggacacaaa	cccctgtcac	caggagagtc	agtcagcact	acttgggagg	gctaaaaggga	180
aatttggaaa	taaaattcca	aagtttggag	taaaaaaatt	caagtgttga	ttttatatcc	240
tttccctttc	tgacacagcc	taaagcgtag	ggggaacatg	tgtttatctg	tgaggagataa	300
acaagatgga	gtcccaaaga	ctttaacaaa	atattttttt	aaaaatccac	tagaatagaa	360
aatacattat	ttagatatac	tttatgctga	gagtgagtat	atatgcttgt	cctattttaa	420
cttgtgagaa	aaagtggtag	cccttgatac	atttagaaat	atgggggcta	tcttgtttca	480
ttgtgggggt	ggggcagaag	gagaataaat	gcaggatgac	cctgttgaag	gaatccttagc	540
atggccaaca	ggggacgttt	ccagtcgatt	accaggaaat	gcaagccttg	gggtttctac	600
tggtgggtgg	gctgtcatga	actttaaaat	ccaaagccta	gacaaggaaa	agtgttagac	660
caattgaaaa	gcaatccagc	cctttttttt	tttttttttt	ttggctttgc	acgacattgt	720
taacagaaac	catgcctttc	aatattagaa	ataaatgtga	tgatcatgtt	aaatgtgaaa	780
aatttgaagc	cttcagcaaa	ataagaattt	ttattttntt	n		821



<210> 213  
 <211> 497  
 <212> DNA  
 <213> Homo Sapien

<400> 213  
 acttgacctg attacgccaa gcttggtacc gagctcggat ccactagtaa cggccgccag 60  
 tgtgctggaa ttgcgcccta gcgtgggtcgc gcccgaggta caaaacaata gtctaaacta 120  
 acacgaactg ttacctgggc tattaaagga tacacgggat ccactaaaca gacagatcct 180  
 tatttccctg cttgatgttg caaagccctt ggcaaccagg ggcaaagggtc actgggggttt 240  
 gactaaactg ggctgagtg cagctatgac tgcctctcag atttttgagt tgtttttgaa 300  
 attaaaagct tctaaaagtt gcatcaacat cctcctaagc ccccatagga ttgtaacacc 360  
 accacaaaag gccaccaaca ctttttaaac aaagtgaata ctgtctgaca ccaatcatct 420  
 tgaaaactcc atggcaagtg cattagctat gatttcatca cttacaggta gagaagctta 480  
 ctgtctactg gtgtggg 497

<210> 214  
 <211> 817  
 <212> DNA  
 <213> Homo Sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(817)  
 <223> n = A,T,C or G

<400> 214  
 ggccttanag ctgctcgncg gccgccatgt gatggatgc tgcagaattc gccctttcga 60  
 gcggccgccc gggcaggtag tctcagtcac atgcagaaat actttttttt taattaatag 120  
 ttacaggctt gttggtccag tgggatttgg gtagggggag aaagatacct tctaaaatgg 180  
 atcaatagaa ccaaaataat acagcatggt ctataaccac aaggaaatca aatgatcctg 240  
 tcatgattcc agttagtcac aacctgttta gcagtgcata atgcatttta gaaatggtga 300  
 cttctgtggt tttcctagca tttgtctcta acaaattggt aaataattac tcatggccct 360  
 ctctgccatt gtctttcatt ttttcacagt gaaattagac ccctttactt caccattctg 420  
 ccactgcaaa ttaagtataa agaaaatagc aagagtgtcc acaccagtag acagtaagct 480  
 tctctacctg taagtgatga aatcatagct aatgcacttg ccattggagt ttcaagatga 540  
 ttgggtgtcag acagttttca ctttgtttta aaagtgttgg tggccttttg tgggtgtggt 600  
 acaatcctat gggggcttan gaggatgttg atgcaacttt tagaagcttt taatttcaaa 660  
 aacaactcaa aaatctgaag gacagtcata gctgccactc agccccagtt agtcaaaccc 720  
 cagtgcactt tgcccttgtg tgccaagggc tttgcaacat caagcangga aataaggatc 780  
 tgnctgttag tgggataccg ggtatccttt aatagac 817

<210> 215  
 <211> 495  
 <212> DNA  
 <213> Homo Sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(495)  
 <223> n = A,T,C or G

<400> 215  
 acttgacctg attacgccaa gcttggtacc gagctcggat ccactagtaa cggccgccag 60  
 tgtgctggaa ttgcgcccta gcgtgggtcgc gcccgaggta catgctgact tcttggtatc 120  
 ttttaaggcc taattttccc ttcccttgaga ttactgtagt gtgttccagc taatttctat 180  
 ttggaacaga gttggaacag ctgaaaacta ggtattattg aaggcaaagc agcctcacgt 240  
 cagtttttta tcagctcatt tgggaagttt tttttttttt ttttttaatt aattagaaaag 300  
 taggctgggc acggtggctc atgcctataa tcccagcact tggggaggcc gaggatctcc 360  
 tctctggtgg atcacttgag gccaggagtt aagagaccat cctggccaac atgatgaaac 420  
 cctgtctcta ctaaaatac aaaaagtagc tgggcgtggt ggcatactct tacaatccca 480  
 gctacttggg aggc 495

<210> 216  
 <211> 823  
 <212> DNA  
 <213> Homo Sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(823)  
 <223> n = A,T,C or G

```

<400> 216
gggcctcaga gcatgctcgn cggccgcccag tgtgatggat atctgcagaa ttccgcccctt    60
cgagcggccg cccgggcccag tacttttttt tcttttttta catctgattt taatgcttcg    120
ttaacttcaa aagggaactgg tagagttcag aaggtagagct gttgtttttc taaacctctt    180
cccaggaagg ggacattgac acttgaattt ttgtcacctt ttccctcatt agaaggaaaag    240
tagaaagcct tactgtagga tttttaaaaa aaaaaccatc tcaccccata ttggtcttaa    300
ataagtatag actaattaac ctaagctacc tttaacaacg tagaatttag atgggttcat    360
atatgtgaga aaaacctgaa tataggacag gggtcctact tttttcccca cctctgtcgc    420
ccaggctaga gtatagtggg gtgatcttgg cccactgcaa cctctgcttc ctaggttcaa    480
gtgattctcc tgcctcagcc tcccaagtag ctgggattgt aagagtatgc caccacgccc    540
agctactttt tgtattttta gtagagacag ggtttcatca tgttggccag gatggtctct    600
taactcctgc cctcaagtga tccaccagag aggagatcct cggcctnccc aagtgctggg    660
attataggca tgagccaccc gtgcccagcc tactttttaa ttaattaaaa aaaaaaaaaa    720
aaaaacttnc caaatgagct gatnaaaaaa tgacgtgang ctgctttgcc ttcaataata    780
cctagttttc actggtccaa ctcgttttcca aatagaaatt acg                    823
  
```

<210> 217  
 <211> 827  
 <212> DNA  
 <213> Homo Sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(827)  
 <223> n = A,T,C or G

```

<400> 217
nnnnnnnggc ctntnnagca tgctcgacgg ccgccatgtg atggatatct gcagaattcg    60
cccttttcgag cggccgcccg ggcaggtact gtatcattgg cagatgtgac gtcaccgaca    120
accagagtga agtggcggac aaaactgagg attacctgtg gctgaagttg aaccaagtgt    180
gttttgacga cgatggcacc agctccccac aagacaggct cactctctca cagttccaga    240
agcagttgtt ggaagactat ggcgagtccc actttacggt gaaccagcaa cccttcctct    300
acttccaagt cctgttcctg acagcgcagt ttgaagcagc agttgccttt cttttccgca    360
tggagcggct gcgctgccat gctgtccatg tagcactggg gctgtttgag ctgaagctgc    420
ttttaaaagtc ctctggacag agtgctcagc tcctcagcca cgagcctggg gaccctcctt    480
gcttgcgggc gctgaacttc gtgcggctcc tcatgctgta cctcggccgc gaccacgcta    540
agggcgaaatt ccagcacact ggcgggcgtt actagtggat ccgagctcgg taccaagctt    600
ggcgtaatca tggtcatagc tgtttcctgt gtgaaattgt tatccgctca caattccaca    660
caacatacga gccggaagca taaagtgtaa agcctggggg gcctaattgag tgagctaact    720
cacattaatt gcgttgcgct cactgcccgc ttttcaatcg ggaaacctgt cgtgccagct    780
gcattaatga atcggncaac gcccggggan aagcgggttg cgtattt                    827
  
```

<210> 218  
 <211> 498  
 <212> DNA  
 <213> Homo Sapien

```

<400> 218
cacttgacct gattacgcca agcttggtac cgagctcgga tccactagta acggccgcca    60
gtgtgctgga attcgccctt tcgagcggcc gcccgggcag gtactttttt tttttttttt    120
taattcccac aacaacccat ttcaaaatga gaaaactagg ttgagtgact tgtccacagt    180
  
```

```

tccaaagcta ataaaaatga tgaggcatat ttctcttctg ggcccactgt attcagttct 240
ttgttcttta cactgagtgc cgaaaaaaaa aaatcagact attttgattc tagaaagtga 300
gataattgaa aatgttaaca tatttctcca aaatgatca gactgtggag tctgtcactt 360
ttttgtata ataaaggagt ttgaagaaac aaatgacatc attcctgatg atggtagccc 420
actccaacaa aggcgtatat atgtaggcaa gtttgaagat atctataaga gcattaaaag 480
gcaagtgcac cattgtgg 498

```

&lt;210&gt; 219

&lt;211&gt; 818

&lt;212&gt; DNA

&lt;213&gt; Homo Sapien

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(818)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 219

```

ggcctntnga gctgctcgac ggccgccatg tgatggatat ctgcagaatt cgcccttagc 60
gtggcgcggc cgaggtagct agaaaaacaga aacttgagta gacatggtaa tgaccagaaa 120
aggctatctt tatacatttc ttttgctacg cttcaaattc atgtcaccta aaagttgtga 180
agtgcacaaa acaaatctac ttaactgaaa attattttca atgaatggga tgtttagaac 240
tctgtgaggg tttttaaggt cttttcgaat agcaaatctt aatgaggctt ttttaagttg 300
gcaattttaa ctcatacaag aaataaaaaac tcaccagtgt ggctgggcag aatatatata 360
ttttctcaaa tattgtttgt ttgttttttc cctgcactgt atccatggtc ccatgatgaa 420
actgttatat tgctgatata tttattggaa tatgtgggcc aacttccttt ccaactcaaca 480
tatggattgg tagtttaaaa taattccttt ctattaagca aatgtgtggc taaggcacat 540
ttaaatagcc cattaaacca atgagatgac aatgtgttac cctcagagaa agcttaattt 600
ttggagtaat caattacaca tatcacagaa tgtctcatga gaacattttt ggctaggtct 660
accaatttat catgcaaaata attatagatt ttcatttgag gcaaagatgc tgattcatca 720
ttagtaacat ggtcacaaaat aatcatttat tttattttgg taacatctgt ctttcctgtg 780
gggaaactta ctatatgctc tacgttaatt aaattaaa 818

```

&lt;210&gt; 220

&lt;211&gt; 497

&lt;212&gt; DNA

&lt;213&gt; Homo Sapien

&lt;400&gt; 220

```

cacttgacct gattacgcca agcttggtac cgagctcgga tccactagta acggccgcca 60
gtgtgctgga attcgccctt tcgagcggcc gcccgggcag gtacagccat gaaattgttg 120
ctactcatag aaagtcttag tatagtttgg tttaaacatt ttaaaattgc aaataaatat 180
agatagataa tatcatgatg agaaggtcac gggaagcctg gagatttcag ggtgctcttt 240
cataattgga gcgagaatca tgtaacagtt aagaaactaa actcttgagc cttcatagtc 300
tttgctttct cccattttat ttatctgata ttatataccc tctttaatta tagactggac 360
tgaaatattt tatttttgtt ttattataaa aaatcctact cgtctttaac atgttctctt 420
aaagagtgtt tcatatataa atactttccc cccaaaatat aaagaggcta accactatag 480
tattgaaaga ttgaaag 497

```

&lt;210&gt; 221

&lt;211&gt; 831

&lt;212&gt; DNA

&lt;213&gt; Homo Sapien

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(831)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 221

```

cnnnannggg cctntanagc atgctcgacg gccgccatgt gatggatatc tgcagaattc 60
gcccttagcg tggctcgcggc cgaggtagaa tgaaagtatg agctacctct ctgaagtctg 120

```

```

gaaaccttga gagtattaag gttacatgca taaaatcttt aaaatggaag tgtcattaca 180
tggtaaacca attcaaatta aaaataatct catgctgtga aagcaaaata tataactggt 240
ttacccattc ataggtaatt gcacgtcttt gttacatctc aatagtttct ttgtatttgt 300
tgcaatcacc ctcttcttcc tcaacactct ttctacctc catgtaaactg ctgttgtagaa 360
ttctttataa tattctcatc aatgttttaa gatgaagttt aaagtgtcta caaaggaagc 420
attttaactc ctcttagaac tgagccttta aatttggttt tagacacctt aggtctttct 480
ttcaatcttt caatactata gtggttagcc tctttatatt ttggggggaa agtattttata 540
tatgaaacac tctttaagag aacatgttaa agacgagtag gattttttat aataaaaaca 600
aaataaaaata ttccagtcca gtctataatt aaagagggtta tataatatca gataaataaa 660
tgggggagaaa gcaagacta tgaaggctca agagtttagt ttcttaactg gtacatgatt 720
ctcgctncaa ttatgaaaga gcaccctgaa atctncangc ttncctgac cttctcatca 780
tgatattatc tatctatatt tattgcaatt ttaaaatggt taaaccaaac n 831

```

```

<210> 222
<211> 497
<212> DNA
<213> Homo Sapien

```

```

<400> 222
cacttgacct gattacgcca agcttggtac cgagctcgga tccactagta acggccgcca 60
gtgtgctgga attcgccctt agcgtggtcg cgcccgaggt actctttctc tcccctcttc 120
tgaatttaat tctttcaact tgcaatttgc aaggattaca catttcactg tgatgtatat 180
tgtgttgcaa aaaaaaagtg tctttgttta aaattacttg gtttgtgaat ccatcttgct 240
ttttcccat tggaactagt cattaaccca tctctgaact ggtagaaaaa catctgaaga 300
gctagtctat cggcatctga caggtgaatt ggatggttct cagaaccatt tcacccagac 360
agcctgtttc catcctgttt aataaattag tttgggttct ctacatgcat aacaaaccct 420
gtcccaatct gtcacataaa agtctgtgac ttgaagttta gtcagcacc cccaccaaact 480
ttatttttct atgtgtt 497

```

```

<210> 223
<211> 822
<212> DNA
<213> Homo Sapien

```

```

<220>
<221> misc_feature
<222> (1)...(822)
<223> n = A,T,C or G

```

```

<400> 223
gggcctnaga gctgctcgnc ggccgccatg tgatggatat ctgcagaatt cgcccttcga 60
gcgccgcgcc gggcaggtag tttattttca aaaaactcat atgtcgcaaa aaacacatag 120
aaaaataaag tttggtgggg gtgctgacta aacttcaagt cacagacttt tatgtgacag 180
attggagcag gggttggtat gcatgtagag aacccaaact aatttattaa acaggatgga 240
aacaggctgt ctgggtgaaa tgggtctgag aaccatccaa ttcacctgtc agatgccgat 300
agactagctc ttcagatggt tttctaccag ttcagagatg ggtaaatgac tagttccaat 360
ggggaaaaaag caagatggat tcacaaacca agtaatttta aacaaagaca cttttttttt 420
gcaacacaaat atacatcaca gtgaaatgtg taatccttgc aaattgcaag ttgaaagaat 480
taaattcaga ggaggggaga gaaagagtac ctcgccgcg accacgctaa gggcgaattc 540
cagcacactg gcggccgtta ctagtggatc cgagctcggt accaagcttg gcgtaatcat 600
ggtcatactg gtttcctgtg tgaattgtt atccgctcac aattccacac aacatacgag 660
ccggaagcat aaagtgtaaa gcctgggggtg cctaatgagt gagctaaact acattaattg 720
cgttgcgctc actggccgct ttccagtcng gaaacctgtc gtgccagctg cattaatgaa 780
tcggccaacg cgccgggaga ngcngnttgc gtattgggcc cn 822

```

```

<210> 224
<211> 494
<212> DNA
<213> Homo Sapien

```

```

<220>
<221> misc_feature

```

&lt;222&gt; (1)...(494)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 224

cncttgacnt	gattacgcca	agcttggtac	cgagctcgga	tccctagtaa	cggccgcccag	60
tgtgctggaa	ttcgccctta	gcgtggctgc	ggccgaggta	cttttttttt	tttttttaac	120
caactcaata	tgtgtttgat	gatagtgaat	tgataaaaacc	cgaagctttt	ccctgtaaat	180
cttacatctt	tgccttttaa	gaatgggtta	caaccatcac	tagatcacag	tagtgcctaa	240
tgaagggtga	gaaccgtagg	agaggctctc	atgctgtaaa	taatgttgca	ggctaataac	300
ctttcatcac	ttcctttgtg	cgcttctctc	cttaagtgc	aagtagcaac	atggcttggg	360
tccctgtgc	agcatcagct	tatgctgcca	caagtcagtt	tgcaccctag	gtgcccagga	420
gctagtatcc	ttagatcttt	ctatcgctaa	cttaattctc	ttcgttattt	atctgacct	480
ctaactccat	gtct					494

&lt;210&gt; 225

&lt;211&gt; 822

&lt;212&gt; DNA

&lt;213&gt; Homo Sapien

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(822)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 225

gggccttnga	gctgctcgnc	ggccgcccagt	gtgatggata	tctgcagaat	tgcgcccttcg	60
agcggccgcc	cgggcaggta	ctttaatttt	gcttgttcaa	atgatctaca	cttacatttt	120
gcaaattctt	tttttaaatt	tttttaaatt	ttatatTTTT	tttccagcca	actcaaggcc	180
aaaaaaaaatt	tcttaataata	gttattatgc	gaggggaggg	gaagcaaagg	agcacaggta	240
gtccacagaa	taagacacaa	gaaacctcaa	gctgtgaggt	caatttgtaa	ttaaaagaat	300
actaagatta	gatgaacaca	acactcagaa	atactctagg	agagctgaaa	aagaagggaac	360
agatgttaac	aaaacaaatt	aaggctgctg	gggaacctga	gtccatgtta	agcttggggt	420
gactgtaaaag	aatttttttt	tttaatgcaa	gttagacatg	gagttagagg	gtcagataaaa	480
taacgaagag	aattaagtta	gcgatagaaa	gatctaagga	tactagctcc	tgggcacctta	540
gggtgcaaac	tgacttgtgg	cagcataaagc	tgatgctgca	caggggaccc	aagccatggt	600
gctacttgct	acttaaggca	ggaagcgcac	aaaggaagtg	atgaaagggt	attagcctgc	660
acattattta	cagcatgaga	gcctctccta	cggttctcaa	ccttcattag	gcctactgtg	720
atctantgat	ggntgtaccc	attctttaaa	ggcaagatg	taaggattta	cagggaaaaag	780
cttcgggttt	tatcaattca	ctatcatcaa	acacatatg	ng		822

&lt;210&gt; 226

&lt;211&gt; 498

&lt;212&gt; DNA

&lt;213&gt; Homo Sapien

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(498)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 226

anntaaacta	tgacctgatt	acgccaaactt	ggtaccgagc	tccgatccac	tagtaacggc	60
cgccagtgtg	ctggaattcg	cccttttcgag	cggccgcccg	ggcagggtacc	ctctcatata	120
tgcaaacaaa	tgcagactag	gcctcaggca	gagactaaag	gacatctctt	ggggtgtcct	180
gaagtgattt	ggacccctga	gggcagacac	ctaagtagga	atcccagtgg	gaagcaaagc	240
cataaggaag	cccaggattc	cttgtgatca	ggaagtgggc	caggaagggtc	tgttccagct	300
cacatctnat	ctgcatgcag	cacggaccgg	atgcgcccac	tgggtcttgg	cttccctccc	360
atcttctcaa	gcagtgtcct	tggtgagcca	tttgcatcct	tggctccagg	tggctccctc	420
agctgggact	ctaccacttg	ggtctccaga	ttttctgtta	cgtccttgtg	ggtcaggata	480
tttctggaag	tcactccg					498

&lt;210&gt; 227

<211> 815  
 <212> DNA  
 <213> Homo Sapien

<220>  
 <221> misc\_feature  
 <222> (1)... (815)  
 <223> n = A,T,C or G

<400> 227

gggcctctna	agctgctcga	cggccgccat	gtgatggata	tctgcagaat	tcgcccttag	60
cgtggtcgcy	gccgaggtac	attgatgggc	tggagagcag	ggtggcagcc	tggtctgcac	120
agaaccaaga	attacagaaa	aaagtccagg	agctggagag	gcacaacatc	tccttggtag	180
ctcagctccg	ccagctgcag	acgctaattg	ctcaaaacttc	caacaaagct	gcccagacca	240
gcacttggtg	tttgattctt	cttttttccc	tggtctctcat	catcctgccc	agcttcagtc	300
cattccagag	tcgaccagaa	gctgggtctg	aggattacca	gcctcacgga	gtgacttcca	360
gaaatatcct	gacccacaag	gacgtaacag	aaaatctgga	gacccaagtg	gtagagtcca	420
gactgaggga	gccacctgga	gccaaaggatg	caaatggctc	aacaaggaca	ctgcttgaga	480
agatgggagg	gaagccaaga	cccagtgggc	gcatccggtc	cgtgctgcat	gcagatgaga	540
tgtgagctgg	aacagacctt	cctggcccac	ttctgatcac	aaggatcct	gggcttcctt	600
atggctttgc	ttccactggg	attcctactt	agggtgctgc	cctcaggggt	ccaaatcact	660
tcaggacacc	ccaagagatg	tcctttagtc	tctgctgagg	cctantctgc	atttggttgc	720
atatatgaaa	aggtacctgc	ccgggccggc	cgttcnaang	gcgaatttca	gcacactggc	780
ggncgntact	agtggatccc	aactcggtac	caagc			815

<210> 228  
 <211> 512  
 <212> DNA  
 <213> Homo Sapien

<220>  
 <221> misc\_feature  
 <222> (1)... (512)  
 <223> n = A,T,C or G

<400> 228

annnnnttn	acctannact	atgacctgat	tacgccaaact	tggtaccgag	ctcggatcca	60
ctagtaacgg	ccgccagtg	gctggaattc	gccctttcga	gcggccgccc	gggcaggtac	120
taggtttgca	aaaccaatag	catgcacatg	tggtgggctg	aggttcatgt	gtcagagact	180
cagttgtaga	aggaactttg	aatctggcag	gcacttaact	gtggctgctc	agaactaatg	240
tatctggggc	tgcttgagca	ggggctgagg	tcagaggcag	ggagtgagct	ctccatcatc	300
cttgactcag	accagctccc	gcaggagctc	catggtcatc	cctggagctc	atgtggagtg	360
caaggtccgg	gagtgggggc	gctgacagaa	acaaatctgg	ggggatcagc	cagggtcagc	420
aggggacaga	gatcatgtct	tttagaagaa	tgtgggcttc	ctgacctata	gaagggcagc	480
tgttcacccc	ctgcagatga	tagcagggat	ng			512

<210> 229  
 <211> 815  
 <212> DNA  
 <213> Homo Sapien

<220>  
 <221> misc\_feature  
 <222> (1)... (815)  
 <223> n = A,T,C or G

<400> 229

gggcctnaga	gcatgctcga	cggccgccat	gtgatggata	tctgcagaat	tcgcccttag	60
cgtggtcgcy	gccgaggtac	tttttttttt	tttttttttt	ttcagagata	ggttcttact	120
atgctgccct	ggctggagtg	cagtggcttt	cttaggggca	atcacagctc	actgcagcct	180
ggaactcctg	ggctcagcct	cctaagtagt	tgagactacc	aatgcacgcc	accatacctg	240
gccttagata	ccccctgtat	cctggaactc	actccttata	agagacactg	aatgtggaag	300

tcttcgcaga	tattaagggc	actgcccagt	tcctgtcttt	gaattattgg	gccaaaca	360
gaaaggcgct	cctgaggccc	cagatcatcc	ctgctatcat	ctgcaggggg	tgaacagctg	420
cccttctata	ggtcagggaag	cccacattct	tctaaaagac	atgatctctg	tcccctgctg	480
accctggctg	atccccccag	atttgtttct	gtcagcgccc	ccactcccgg	accttgcact	540
ccacatgagc	tccagggatg	accatggagc	tcctgctggg	ctgggtctga	gtcaaggatg	600
atggagagct	cactccctgc	ctntgacctc	agcccctgct	caagcagccc	cagatacatt	660
agttctgagc	agcccagtta	agtgcctgcc	agattcaaag	ttccttctac	aactgagctt	720
ctgacacatg	aaccttaagc	ccaacacatg	tgcctgctat	tgggttttgc	aaacctagta	780
cctgnccggg	cgggccgttc	gaaanggcga	attct			815

&lt;210&gt; 230

&lt;211&gt; 502

&lt;212&gt; DNA

&lt;213&gt; Homo Sapien

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(502)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 230

tnnancatana	cttgacctga	ttacgccaac	ttggtaccga	gctcggatcc	actagtaacg	60
gccgccagtg	tgtctggaatt	cgccctttcg	agcggccgccc	cgggcaggta	cacagagatg	120
cgggtccagct	gcaggctcgt	gtccccgtgg	taggtgcccg	tggggtcgat	gccatgttca	180
tcaactgatca	cctcccagaa	cttggcaccg	atctggtagc	cacactgacc	agcctggatg	240
tgcacgattt	ccctcatggg	taaaatttaa	tttttttgct	cgcctcaagg	tatgtatggg	300
gcaagaaaat	aagtaatttt	ttttctccgc	aggtcgcagg	ctggaagggt	ggaatgcgcc	360
ccagaggctg	gagcagcgag	gtgcaaacgc	gacggcagga	aggttctgag	agccccgcgt	420
acctcggccg	cgaccacgct	aagggcgaat	tctgcagata	tccatcacac	tgccggccgct	480
cgagcatgca	tctagagggc	cc				502

&lt;210&gt; 231

&lt;211&gt; 817

&lt;212&gt; DNA

&lt;213&gt; Homo Sapien

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(817)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 231

nngggcctct	nnagctgctc	gacggccgccc	atgtgatgga	tatctgcaga	attcgccctt	60
agcgtggctg	cggccgaggt	acgccccgct	ctcagaacct	tcctgccgtc	gcgtttgcac	120
ctcgtgctc	cagcctctgg	ggcgcatcc	aaccttccag	cctgcgacct	gcggagaaaa	180
aaaattactt	attttcttgc	cccatacata	ccttgaggcg	agcaaaaaaa	ttaaatttta	240
accatgaggg	aaatcgctga	catccaggct	ggtcagtggt	gctaccagat	cggtgccaag	300
ttctgggagg	tgatcagtga	tgaacatggc	atcgacccca	ccggcaccta	ccacggggac	360
agcgacctgc	agctggaccg	catctctgtg	tacctgcccg	ggcgcccgct	cgaaaggcg	420
aattccagca	cactggcggc	cgttactagt	ggatccgagc	tcggtaccaa	gcttggcgta	480
atcatgggtc	tagctgtttc	ctgtgtgaaa	ttgttatccg	ctcacaattc	cacacaacat	540
acgagccgga	agcataaagt	gtaaagcctg	gggtgcctaa	tgagttagct	aactcacatt	600
aattgcgttg	cgctcactgc	ccgctttcca	gtcgggaaac	ctgtcgtgcc	agctgcatta	660
atgaatcggc	caacgcgcgg	ggagaggcng	nttgcgtatt	ggcgctctct	ccgcttnctc	720
gctcacttga	ctcgtctgcg	ctcggctcgt	cngcttgccg	cnanccggat	tcagcttact	780
taaaggcggt	aataccgggt	atccaccaga	attangg			817

&lt;210&gt; 232

&lt;211&gt; 481

&lt;212&gt; DNA

&lt;213&gt; Homo Sapien

```

<400> 232
actatgacct gattacgcca agcttggtac cgagctcggg tccactagta acggccgcca      60
gtgtgctgga attcgcctt tcgagcggcc gcccgggcag gtacaaaattt gttgtgtttt      120
ttatgttcta ataactactga gacttctagg tcttaggtta attttttagga agatcttgca      180
tgccatcagg agtaaatattt attgtggttc ttaatctgaa gttttcaagc tctgaaattc      240
ataatccgca gtgtcagatt acgtagagga agatctttaca acattccatg tcaaatctgt      300
taccatttat tggcatttag ttttcattta agaattgaac ataattattt ttattgtagc      360
tatatagcat gtcagattaa atcattttaca acaaaagggg tgtgaacctt agactattta      420
aatgtcttat gagaaaattt cataaagcca ttctctgtc attcaggtec agaaacaaat      480
t

```

```

<210> 233
<211> 809
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1)...(809)
<223> n = A,T,C or G

```

```

<400> 233
gggcctctnn agcatgctcg acggccgcca tgtgatggat atctgcagaa ttcgccctta      60
gcgtggtcgc ggccgaggta caaaagatac tggtcacccc attagagAAC tgatttgaag      120
ttactcttcc ctgtgagggc tctgtcatct taactgtatt cacatacttt caactgttcc      180
ccttgctgct aacctcaggc tctttagttc atctatctgg cagagctgat ttggggaaaa      240
caagacaaac cttgtcaggc tttcttaata aataagcagt tgcatgtttt caagagtttt      300
agaaatgagc aataatcaag gaagaggaca acgattgcat acgtttataa tatttagaac      360
atcttttgcc acaataaaca ctggaaacca cccacttgtg gacaccaaac atttggattt      420
gtatattttg tggcattccc tcaacttaat cctctcatcc ttaaaaattt tcagaaattt      480
ttgcagcaac aaacactgat tgcaacatat gatttagggc agatttatga accatttttt      540
cactgaaata catcacagg agtgagtagt ctgagtgaac accccagcat ggagaaaaact      600
gtagttttaca gattcttctg gagcattttt atttctagat tgcagtggaa gtctaacccc      660
ccttgagat gtctgcctta aagggtcttt ggccagggtc ctctgtagag ccatagtcca      720
gatctactct atttngtgc tctttacaac atcagaacag caactctcaa tccggatcat      780
cccagaatgc cgctgagtca cagcgtggg

```

```

<210> 234
<211> 482
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1)...(482)
<223> n = A,T,C or G

```

```

<400> 234
actatgacca tgattacgcc aagcttggtg ccgagctcgg atccactagt aacggccgcc      60
agtgtgctgg aattcgcctt tcgagcggcc gcccgggcag gtactgaaaa gaagatagtg      120
ccatttgaaa caacagatgc atcttttata cattttcaca agttingttt tcatattttt      180
aaaggcccca tttatctgta acagtgggtt ttttatttag agtatcggct acttaataa      240
tacatgcaac aatatatgct ttaatagtca ttttaacttt angaatattt catnacatta      300
agtgggttaag catagcgtta aaagagtggg atataaggaa tannaanntn tngaaaatac      360
gctgctannt tcattingcan actatagtag aatggagatg ccataaaaag tgatcattgc      420
ccaactgaat tectaccng aactaacatg tgattctcaa gtgggganaa atattattaa      480
aa

```

```

<210> 235
<211> 474
<212> DNA
<213> Homo Sapien

```



<220>  
<221> misc\_feature  
<222> (1)...(474)  
<223> n = A,T,C or G

<400> 235  
acttgacctg attacgcca gcttggtacc gagctcggat ccactagtaa cggccgccag 60  
tgtgtctggaa ttcgccctta gcgtgggtcg gcgcgaggta cattacttgg tgtaaactt 120  
gttgccagtgt gtagccctt ttcagaaagc aacttgctgt aagtcagggt gtccgttcca 180  
accttcagct agtgaaaagg tagtaacaaa tggtaaacia gagaatgatt gtttaaacct 240  
atctgtggac acttaattgca actgtttaaa aatgataatc acgagttatg tagcaacgtg 300  
gaaatatatt tacagaacat taatggagaa gcaggggacac gaagtatatt atactacagt 360  
tataactcaa cagtcattat atgccggtca tttaccagtc atttaaccag ttcattataa 420  
ctgttttaaaa atatatatgc ttatagtcaa aagctgttgt ggtgtgtgtg ttgn 474

<210> 236  
<211> 819  
<212> DNA  
<213> Homo Sapien

<220>  
<221> misc\_feature  
<222> (1)...(819)  
<223> n = A,T,C or G

<400> 236  
gggccttnna gctgctcgnc ggccgccagt gtgatggata tctgcagaat tcgccctttc 60  
gagcgccgc cggggcagggt actttttttt ttttttttt ttttttttt taactttatt 120  
tttattgntg acactattac agatagaatg accacaacca tattaacaaa ccaaaaacct 180  
gtgcacagaa acaagatgaa gaaaatatat caagatgtta aacacactct ttggatggtg 240  
aaaacatggg tgagtttctc ttctacattt ctgtaacttc aaagtttcta taatgaacac 300  
atctcatata taatggaaat atatgtagta aaggtggact accaaaacac tagaatgatg 360  
acctttcaag gaaaccgaaa caaaataacc ataatcccac aacaaccaca caactatttc 420  
ttgnttttca tctttcttcc catctttgac atttatgcat acttatcact aacaccctaa 480  
taatcacaga ctagtgcaca gatcaagatg ttaacagtta attgtgtgtg ggtgttgga 540  
atatgtgtga attttcttta ctgaatttcc aaagttttgt atgagtatgt attatatttg 600  
taatggaaaa tacatacata aaatttatta ccaaaacacc aaagattatt taagggaatt 660  
tgagacaaaa tatttaacca aattcccaca atgacaacac tatttttagtt attttccaca 720  
tcttttcatt taagacttta tgcacacata ttttaacactg gtatcacaag cgtgggcact 780  
gaaacaagga tnganggaac nggatcagga tgttagccg 819

<210> 237  
<211> 483  
<212> DNA  
<213> Homo Sapien

<220>  
<221> misc\_feature  
<222> (1)...(483)  
<223> n = A,T,C or G

<400> 237  
agcttgacct gattacgcca agcttggtac cgagctcgga tccactagta acggccgccca 60  
gtgtgctgga attcgccctt agcgtgggtc cggccgagggt actaagctca gcattgtctca 120  
tggtcaatta ctgcgtatatt ccaaaaaatg tgttgtttgg tcttgagaaa attcttttagc 180  
cccttgacac cagaattatc tccactgtag aaaaaataga caattatagt ctaacaggta 240  
aatcacaaaa attcttcagc cacacttctc gggttcfaat gtggtttttc tactcagtaa 300  
tattgtaacc ctgggcaagt tatttaactt gtctaagtct cagtttctcc atctgtaaaa 360  
tgaggataat cacaatatct actacataat gttcttctga agatgtaatg agataatcca 420  
tgtnaaatat tcanacagca cataggaatg ggtcatttaa tgtttatcat tacttgccca 480  
ttt 483

<210> 238  
 <211> 815  
 <212> DNA  
 <213> Homo Sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(815)  
 <223> n = A,T,C or G

<400> 238  
 gggcccntnn agctgctcgn cggccgcccag tgtgatggat atctgcagaa ttgcgcccttt 60  
 cgagcggccg cccgggcagg taccattatt ttctattcaa taccatattgt ctgaaaaata 120  
 ggcaagtaat gataaacatt aaatgaccca ttcttatgtg ctgtctgaat attttacatg 180  
 gattatctca ttacatcttc agaagaacat tatgtagtag atattgtgat taccctcatt 240  
 ttacagatgg agaaactgag acttagacaa gttaaataac ttgcccaggg ttacaatatt 300  
 actgagtaga aaaaccacat ttgaaccag gaagtgtggc tgaagaattt ttgtgattta 360  
 cctgttagac tataattgtc tattttttct acagtggaga taattctggt gtcaaggggc 420  
 taaagaattt tctcaagacc aaacaacaca ttttttgaa atacgcagta attgaccatg 480  
 agacatgctg agcttagtac ctggccgcg accacgctaa gggcgaaatt cagcacactg 540  
 gcggccgtta ctagtggatc cgagctcggt accaagcttg gcgtaatcat ggtcatagct 600  
 gtttctgtg tgaattgtt atccgctcac aattccacac aacatacgag ccggaagcat 660  
 aaagtgtaaa gcctgggggtg cctaattgagt gagctaactc acattaattg cgttgcgctc 720  
 actgnccgct ttccagtcgg gaaacctgtc gtgccagctg cattaatgaa tcggncaacg 780  
 cgccggggag aggcngnttg cgtattgggc gtctc 815

<210> 239  
 <211> 483  
 <212> DNA  
 <213> Homo Sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(483)  
 <223> n = A,T,C or G

<400> 239  
 actatgacct gattacgcca agcttggtac cgagctcgga tccactagta acggccgcca 60  
 gtgtgctgga attcgccctt agcgtggtcg cggccgaggt actttttttt tttttttttt 120  
 ttttttttta gcgagcaagt atggnttatt acggacaaat ggtagaaaaa tgttactaat 180  
 atccatagat aagttcctta agtcatgtag agagactggt attaaaagtt tgctgcattt 240  
 ttctattgaa tcaagaacta gctaccagtt acagtgcctt ctaaaccacac agttagcttt 300  
 gctttatcaa taaccaata ataaactagg tcccaatggt tttgtccaca tntagattgt 360  
 tcaggtgatc aggaactcct ttattttgtg gcttttagctt ttagttcttg gttatatctc 420  
 caaatacgaa aaagctgaga ggctcctact gccccacaa agaaattaac agcaaacaga 480  
 ctt 483

<210> 240  
 <211> 815  
 <212> DNA  
 <213> Homo Sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(815)  
 <223> n = A,T,C or G

<400> 240  
 gggcctntna gctgctcgac ggcgcccag tgatggatat ctgcagaatt cgccctttcg 60  
 agcggccgcc cgggcaggta caaccatcca gcaggctcca gaacagtttt cttctgggct 120  
 ccaattatga aatggggggt ggtgtgtgct ggattggctg atatggccag acctgcagaa 180

```

aaacttagca cagctcaatc tgctgttttg atggctacag ggtttatttg gtcaagatac 240
tcacttgtaa ttattccaaa aaattggagt ctgtttgctg ttaatttctt tgtgggggca 300
gtaggagcct ctgagctttt tcgtatttgg agatataacc aagaactaaa agctaaagca 360
cacaaataaa agagtctctg atcacctgaa caatctagat gtggacaaaa ccattgggac 420
ctagtattat atttggttat tgataaagca aagctaactg tgtgtttaga aggcactgta 480
actggtagct agttcttgat tcaatagaaa aatgcagcaa acttttaata acagtctctc 540
tacatgactt aagggaactta tctatggata ttagtaacat ttttctacca tttgtccgta 600
ataaaccata cttgctcgct aaaaaaaaaa aannnnnaaa aaaaaaagta cctcggccgc 660
gaccacgcta agggcgaatt ccagcacact ggcggcgcgt actagtggat ccgagctcgg 720
taccaagctt ggcgtaatca tgggtcatag ctggttctctg tgtgaaatgg tatccgntca 780
caattncaca caacatacga accggaagcc ttaag 815

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```

<210> 241
<211> 486
<212> DNA
<213> Homo Sapien

```

```

<220>
<221> misc_feature
<222> (1)...(486)
<223> n = A,T,C or G

```

```

<400> 241
agctatgacc atgattacgc caagcttggt accgagctcg gatccactag taacggccgc 60
cagtgtgctg gaattcgccc ttagcggccg cccgggcagg tacttcccac cactggaaat 120
gtagcataa aagaacttgg agaggaaaaa agtattaaca aaactgcagt ctgcactctt 180
taaacctggt taaggctctt catcctgggt agcaaaaagg gtgaatgtaa tgtgatggaa 240
tttaaaagtt ttatgagacc aggcacagtg gctcacgact gtaattccag cagtttagga 300
agccgaagtg tgcagatcac ctgaggtccg gagaccagcc tggccaacat ggtgaaaccc 360
tgtctctact agaaatacaa aaattagcca ggtgtggtgg cgggcgcctg taatcccaac 420
tactcaggag gctgaggcta gagaatcact tgaacccagc angcggaggt tgcggtgagt 480
cganat 486

```

```

<210> 242
<211> 481
<212> DNA
<213> Homo Sapien

```

```

<220>
<221> misc_feature
<222> (1)...(481)
<223> n = A,T,C or G

```

```

<400> 242
anttgacctg attacgccaa gcttggtacc gagctcggat ccctagtaac ggccgccagt 60
gtgctggaat tcgcccctcg agcggccgcc cgggcaggta catcagtgtt cattttatta 120
tttcttacac tgtcttcatg acttacacat aatattttgc tagttttaaa acataagatg 180
tgataataat ctaaacagac caaaggaaat aaatgaatat gattaaaaaa agacagagaa 240
taagccctgt ctgatggaaa gcataacaaa gcaggtagaa caactgtcag gaatgcttga 300
tccaataaag ctaggtttgt gatccacaac acttcagcat ttaaatgtga tttttgatgt 360
tngctttttg caatgggtgat tctcagttgc ctccctcctg tgtctttaca agctgaaatc 420
aagtgaagct acttctgact ttttctaaaa cttaaaccce acatgaaggt ctgcgtattc 480
t 481

```

```

<210> 243
<211> 824
<212> DNA
<213> Homo Sapien

```

```

<220>
<221> misc_feature
<222> (1)...(824)

```

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 243

cnannngggcc	tntnnagcat	gctcgacggc	cgccatgtga	tggatatctg	cagaattcgc	60
ccttagcgtg	gtcgcggccg	aggtacataa	tacttttagat	aaacattttt	agaataactt	120
tattataact	cgataagcaa	aataatccaa	acctttatac	atttctacaa	ggatagtcac	180
atatgtcaat	ttttcggttt	cctctcgtgc	ctattttgtc	tcctgagccg	gcccccttcc	240
agctgacacg	tgtgtcccg	gttctccac	aatagtgtga	cctggcctga	gtccatgccg	300
ccgtgagcct	cctttctgtg	cttacaacag	cagcctgcct	gatgtcagtt	atggactatt	360
ctttctttca	gcttcatttc	agggctcctc	gcctcttaga	gctgctgctg	tagcttagct	420
agagaccgcg	tgctgttgca	tcattggaaaa	gtgccacata	cgtgcacatg	tgaaaagaata	480
cgcagacctt	catgttgggt	ttaagtttta	gaaaaagtca	gaagtagctt	cacttgattt	540
cagcttgtaa	agacacagga	gggaggcaac	tgagaatcac	cattgcaaaa	agcaaacatc	600
aaaaatcaca	ttaaaatgct	gaagtgttgt	ggatcacaaa	cctagcttta	ttggatcaag	660
cattcctgac	agttgttcta	cctgcttttg	ttatgctttc	catcagacag	ggcttattct	720
ctgtcttttt	taatcatatt	catttatttc	ctttggtctg	tttagattat	tatcacatct	780
tatgttttaa	aactagcaaa	atattatgtg	taagtcatga	agnt		824

&lt;210&gt; 244

&lt;211&gt; 483

&lt;212&gt; DNA

&lt;213&gt; Homo Sapien

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)... (483)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 244

actatgacct	gattacgccca	agcttggtac	cgagctcgga	tccactagta	acggcccgcg	60
agtgtgctgg	aattcgccct	ttcgagcggc	cgcccgggca	ggtacgcggg	ggcagggtgt	120
ttaatcgctg	ccaagcggga	cttactgcaa	gctatcaaat	ctgaggtctt	attttggtga	180
gtcgaaagtg	aaattttcct	ttggccaacg	tgacagggtc	ttgtttggtg	gtaaaaaggg	240
ttactagaca	ccctcattc	cactgccact	ggagggcgca	ttctcagct	cttgctcttc	300
aaacctgctg	aaaggaattc	ctagatctaa	acaccagcat	ttgacattgt	gcagcaanaa	360
aatggttatg	ganaagccca	gtcgcgtgct	tgtanggcgg	gagtttggtg	ggcaatatta	420
tactttgctg	aataaagctc	cggaatatct	acacagggtt	tatggcagga	attcttccta	480
tgt						483

&lt;210&gt; 245

&lt;211&gt; 822

&lt;212&gt; DNA

&lt;213&gt; Homo Sapien

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)... (822)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 245

ttgggcccct	nnagcatgct	cgacggccgc	catgtgatgg	atatctgcag	aattcgccct	60
tagcgtggtc	gcggccgagg	tacttcccct	cgaacacataa	tcggtttttg	aattaagatt	120
ctctgaactg	gttcagagtc	atcaaaaacc	acaaaaccaa	aatttggag	ctttcccca	180
acacccttgg	tattgatgcg	aagttccaca	acgtttccaa	aactcatgaa	gaattcctt	240
agctcatttt	catcaatata	atgtggcaag	ttaccaacaa	aaagttgatg	actatctgga	300
tagcgaatta	ttctacgggt	gtcagagtc	ttctgttcca	tatctcctct	gcctgggtct	360
ggctcctctg	gaggaaaacc	aggtcgttct	ctaggtcgtt	gttcacgcac	acgagggtggc	420
tgagattgaa	cttctggtt	agcttcgact	cttggctttg	gtggttcttg	tggcagagaa	480
acaggttctg	ccggaggagg	agtagtagat	ttctcctcta	gttcttctaa	gttcttctcc	540
tccacttggt	gtttcagctc	ttcagtcctt	gtttcagatt	ctggctcagg	ttcagggttca	600
tgagaggatt	cttccaaagg	ctcctctatg	ccattagtca	cagggtgagc	ttcatagtaa	660
ccactgttag	cattttcttg	cacaggttca	ggagatgggt	gnctttcttc	ttggctcctc	720

tctacttcat	ctttotgattc	ttcatcaaag	ttcangctca	gaatcaccaa	acacttnatc	780
ttcataacga	aacatatcat	tgtgaacata	aaattttatt	gg		822

<210> 246  
 <211> 482  
 <212> DNA  
 <213> Homo Sapien

<400> 246						
actatgacct	gattacgcc	agcttggtac	cgagctcgga	tccactagta	acggccgcc	60
gtgtgctgga	attcgccctt	agcgtggctg	cgcccgaggt	actttttttt	tttttttttt	120
aaccaactca	atatgtgttt	gatgatagtg	aattgataaa	acccgaagct	tttccctgta	180
aatcttacat	ctttgccttt	aaagaatggg	ttacaacat	cactagatca	cagtagtgcc	240
taatgaaggt	tgagaaccgt	aggagaggct	ctcatgctgt	aaataatgtt	gcaggcta	300
aacctttcat	cacttccttt	gtgctgttcc	tgctttaagt	gacaagtagc	aacatggctt	360
gggtcccctg	tgacagcatc	gcttatgctg	ccacaagtca	gtttgcaccc	taggtgccca	420
ggagctagta	tccttagatc	tttctatcgc	taacttaatt	ctcttcgtta	tttatctgac	480
cc						482

<210> 247  
 <211> 816  
 <212> DNA  
 <213> Homo Sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(816)  
 <223> n = A,T,C or G

<400> 247						
gggccttnga	gctgctcgan	cgcccgccat	gtgatggata	tctgcagaat	tcgccctttc	60
gagcggccgc	ccgggcaggt	actttaattt	tgcttggtca	aatgatctac	acttacattt	120
tgcaaatctt	ttttttaaat	tttttaaat	ttatatTTTT	tttccagcca	actcaaggcc	180
aaaaaaaaatt	tcttaatat	gttattatgc	gaggggaggg	gaagcaaagg	agcacaggta	240
gtccacagaa	taagacacaa	gaaacctcaa	gctgtgaggt	caatttgtaa	ttaaaagaat	300
actaagatta	gatgaacaca	acactcagaa	atactctagg	agggctgaaa	aagaaggaa	360
agatgttaac	aaaacaaatt	aaggctgctg	gggaacctga	gtccatgtta	agcttgggtt	420
gactgtaaa	aatttttttt	tttttaattg	aagttagaca	tggagttaga	gggtcagata	480
aataacgaag	agaattaagt	tagcgataga	aagatctaag	gatactagct	cctgggcacc	540
taggggtgcaa	actgacttgt	ggcagcataa	gctgatgctg	cacaggggac	ccaagccatg	600
ttgctacttg	tcacttaagg	caggaagcgc	acaaaggaag	tgatgaaagg	ttattagcct	660
gcaacattat	ttacagcatg	agagcctctc	ctacgggtct	caaccttcat	taggcactac	720
tgngatctag	tgatggttgt	acccattctt	taaaggcaaa	gatgtaagat	ttacagggaa	780
aagcttcggg	ttttatcaat	cctatcatca	acacng			816

<210> 248  
 <211> 482  
 <212> DNA  
 <213> Homo Sapien

<400> 248						
actatgacct	gattacgcc	agcttggtac	cgagctcgga	tccactagta	acggccgcc	60
gtgtgctgga	attcgccctt	tcgagcggcc	gcccgggcag	gtactctttg	ggcattaatg	120
ccttctctgt	aattatatct	cgtttttgct	tggcagtgc	ctaccagta	attgcacgt	180
gtattgccat	gaaaggtaaa	cacattgtga	actgaactta	ccaagcagat	tctgtgagaa	240
agcactgggt	ggggctgaac	actgttgaca	catcattttt	attggaagag	tattaactgg	300
tgctcttct	gaaacacacc	aacctatatt	cctctgctcc	cccaaagctg	tttctgatcc	360
tgctgggagc	aactaactag	ttattatgca	catctgctcc	agaccagct	ctttaacttc	420
atggttttac	agcttggttt	ttctttttct	tttcttttct	ttttttttaa	aaaagcacct	480
tt						482

<210> 249

<211> 821  
 <212> DNA  
 <213> Homo Sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(821)  
 <223> n = A,T,C or G

<400> 249  
 ggccctctnag ctgctcgacg gccgccatgt gatggatata tgcagaattc gcccttagcg 60  
 tggctcgggc cgaggtactt tatgaatttg gggtaggtaa agtttgtatt ttatcttaaa 120  
 catgttttct atgatgaaa ggaacaaaat tgtaaaaaat gaggatcttc cctctaaagg 180  
 tttcaaagcg ttagaggaca tgcaattaaa tgggtgtaca ccttgaacaa tgagcctctt 240  
 gagttttag tagggcgaga cgggtccat taccaacaac tttgggtag aaagcacagc 300  
 tctcctcttt taccagcac aaatgcaatc ctgattataa aactatttgt gtttctaaat 360  
 acaaccaaag gaaatcttag agaaacataa attagaaacc tcttttatta aggggaaaca 420  
 acaaaaaaag gtgctttttt aaaaaaaaag aaaagaaaag aaaaagaaaa aacaagctgt 480  
 aaaaaccatga agttaagag ctgggtcttg agcagatgtg cataataact agttagtgtg 540  
 tcccagcagg atcagaaaca gctttggggg agcagaggaa tatgggttg tgtgtttcag 600  
 aagaggcacc agttaatact cttccaataa aaatgatgtg tcaacagtgt tcagcccca 660  
 ccagtgtctt ctcacagaat ctgcttggtg agttcagttc acaatgtgtt tacctttcat 720  
 ggcaatacac gatgcaatta ctgggtaggt cactgccaaag caaaaaccga agatntaatt 780  
 tcccagagaag gcattaatgc ccaaagagta cctgccccgg n 821

<210> 250  
 <211> 481  
 <212> DNA  
 <213> Homo Sapien

<400> 250  
 acttgacctg attacgcaa gcttggtacc gagctcggat ccactagtaa cggccgccag 60  
 tgtgctggaa ttcgacctta gcgtggctgc gcccgaggta caacattgat gttttaatat 120  
 agaatgaagt gcttgctaca cagtcaagta aatcaacata tccattacca cacacacttt 180  
 tcttttctga ggagcggtaa gagtacttta attttgcagt tattgattaa ttaaaaaaca 240  
 cagttgtttt cagcatttcc tagttacagt agtgcataag aaattccatt ctaaacaaaag 300  
 aagtaatttg tgaaataaca acacacctta acattttaca ttgatagggt acagtttaca 360  
 aggtgctttc acatacatta ttctatttga ttcttacaac aagcagaaaa aacagtggga 420  
 aagatttttt ttttcagggt tacaatgagt attttcaggc caatgggcag ttaacacaag 480  
 g 481

<210> 251  
 <211> 803  
 <212> DNA  
 <213> Homo Sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(803)  
 <223> n = A,T,C or G

<400> 251  
 gggccttnna gctgctcgn cggccgccagt gtgatggata tctgcagaat tcgccccttc 60  
 gagcgggcgc ccggcaggta cactaaaatta gaatattttt aaagtatgta acattcccag 120  
 tttcagccac aatttagcca agaataagat aaaaacttga ataagaagta agtagcataa 180  
 atcagtattt aacctaaaat tacatatattg aaacagaaga tattatgtta tgctcagtaa 240  
 ataattaaga gatggcattg tgtaagaagg agccctagac tgaaagtcaa gacatctgaa 300  
 tttcaggctg gaaaactatc agtatgatct cagcctcagt tctcttgtct gtaaaatgga 360  
 agaactggat taggcagttt gtaagattcc tcctaacttt cacagtcgat gacaagattg 420  
 tctttttatc tgatattttg aagggtatat tgctttgaag taagtctcaa taaggcaata 480  
 tatttttaggg catctttctt cttatctctg acagtgttct taaaattatt tgaatatcat 540  
 aagagccttg gtgctctgct taattccttt ctcactcacc gatgetgaat acccagttga 600

atcaaaactgt	caacctacca	aaaacgatat	tgtggcttat	gggtattgct	gtctcattct	660
tggtatatatt	ttgtgttaac	tgcccatggc	ctgaaaatac	tcattgtaag	cctgaaaaaa	720
aaaatctttc	ccactgggtt	ttctgcttgg	tgtaagaatc	aaatgaaata	tggtatgtgaa	780
agcccttgta	actgtaccta	tcn				803

&lt;210&gt; 252

&lt;211&gt; 500

&lt;212&gt; DNA

&lt;213&gt; Homo Sapien

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1) ... (500)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 252

tacnccaann	tttgacctga	ttacgccaag	cttggtaccg	agctcggatc	cactagtaac	60
ggccgccagt	gtgctggaat	tcgcccttag	cgtggctcgc	gccgaggtag	agatgaaaag	120
aagtggtggt	aatgacctac	ctgcaccgat	aataaagcaa	atagaatgat	tatatacatt	180
aagatcagct	tgattaaaaa	taaattttat	atgcaggtaa	attgatcatt	aaaatgaacc	240
cagtttaact	cttctcgtgt	gttgttttaa	ggtaggccac	tgaacgcgag	agataaaatc	300
anatggggaa	aattaaaagc	naagaaaaaa	attacaaaac	aagtgggtta	agccatggat	360
tcttaaccaa	accctggact	aaatgtgcc	aagtgtttg	aaaattttcc	ctgccagcna	420
tggntggtaa	agtcantttg	gcaaaaaaaa	ggtggttnga	aaaaaaactn	acctttttaa	480
ttcccacctt	ggatctggcn					500

&lt;210&gt; 253

&lt;211&gt; 831

&lt;212&gt; DNA

&lt;213&gt; Homo Sapien

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1) ... (831)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 253

gnnnnnnnnn	gnnnnnnnnn	ntttnnantg	ggcctctnna	gcattgctga	cggccgccat	60
gtgatggata	tctgcagaat	tcgccctttc	gagcggccgc	ccgggcaggt	actatatattg	120
tgagcctag	gtaggggcac	tgctgcaact	tctgctttca	tcccatgcct	catcaatgag	180
gaaagggaac	aaagtgtata	aaactgccac	aattgtattt	taattttgag	gtatgatatt	240
ttcagatatt	tcataatttc	taacctctgt	tctctcagta	aacagaatgt	ctgatcgatc	300
atgcagatac	aatgttggtg	tttgagaggt	tagttttttt	tctacactt	ttttttgcca	360
actgacttaa	caacattgct	gtcagggtgga	aatttcaagc	acttttgcac	atttagttca	420
gtggtttgtg	agaatccatg	gcttaaccca	cttggtttgc	tatttttttc	tttgctttta	480
atthtcccca	tctgatttta	tctctgcgtt	tcagtggcct	accttaaaac	aacacacgag	540
aagagttaaa	ctgggttcac	tttaatgac	aatttacctg	catataaaat	ttatttttaa	600
tcaagctgat	cttaaatgtat	ataatcattc	tatttgcttt	attatcgggtg	caggtaggtc	660
attaacacca	cttcttttca	tctgtacctc	ggccgcgacc	acgctaaggg	cgaattccag	720
cacactggcg	gcccgttact	agtggatccg	agctcggtag	caagcttggc	gtaatcatgg	780
gtcatagctg	tttctgtgtg	gaaattggta	tccgntcaca	attcccacan	g	831

&lt;210&gt; 254

&lt;211&gt; 514

&lt;212&gt; DNA

&lt;213&gt; Homo Sapien

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1) ... (514)

&lt;223&gt; n = A,T,C or G

<400> 254  
cacttgacnt gatcgccaac ttggtaccga cntcgnntcc attattaccg gacacttgac 60  
tgatacgcca ncttggtacc gactcggacc actagtaacg gncgccagtg tgctggaatt 120  
cgcccttgag cgcccgcccg ggcaggtagc tctaatacag gctaataaat ttaagctaatt 180  
tatttatgct acctgtgctg ttggtggtttc ctatcagcag ccaaatataa cctcacagtt 240  
gttttgcgtg ttttgctttc acaaaagagc tattaacca cttaaaaatg ttttttgatt 300  
gaaggatgct taggggatga gaggatatca acaatataag cccatgccaa atccccattt 360  
cttatcatta aaactgacct gacattaaag caatgcttaa ttttttacca taagagtga 420  
attttgagat tataatttta aagtgtaaaa tatttacact taaattacac ttataatttt 480  
aaagtgtata atatttacac agattaaaaat aaaa 514

<210> 255

<211> 830

<212> DNA

<213> Homo Sapien

<220>

<221> misc\_feature

<222> (1) ... (830)

<223> n = A,T,C or G

<400> 255  
nnnnnnngn nnnnnnnnnn nnnnnnnant gggcctctnn agentgctcg acggcgcgcca 60  
tgtgatggat atctgcagaa ttcgccctta gcgtggtcgc ggccgaggta cttttttttt 120  
ttttccagat gaagtcttgc tctgttgccc aggctggagc gcagtggcac aatctcagct 180  
cactgaaacc ttcgccccct gggctcaagc tagccagtct tttagtaaac atttagtcaa 240  
caaactctgca attataacgg aggtttgatt tttgttgttt ttgtttgttt ttaagtcact 300  
ctgtgtttgt aatatcaatt tacttttcaa gttagaatg ttttgettca ttgtttccca 360  
tattttattt taactctgtg aaatattata cactttaaaa ttataagtgt aatttaagt 420  
taaataattt acactttaaa attataatct caaaatttca ctcttatggt aaaaaattaa 480  
gcattgcttt aatgtcaggt cagttttaat gataagaaat ggggatttgg catgggctta 540  
tattgttgat atcctctcat cccctaagca tccttcaatc aaaaaacatt ttaagtgtg 600  
ttaatagctc ttttgtgaaa gcaaaaacag caaaacaact gtgaggttat atttgctgc 660  
tgataggaaa ccaccacagc acaggtagca taaataatta gcttaaatat attagcctgc 720  
attagaggta cctgcccggg cnggccgtca agggcggaatt ccagcacact ggccggccgtt 780  
ctagtggtac cgactcggtc cagcttgcgt aatcatggtc atagctgttg 830

<210> 256

<211> 524

<212> DNA

<213> Homo Sapien

<220>

<221> misc\_feature

<222> (1) ... (524)

<223> n = A,T,C or G

<400> 256  
cnnnnnnnna ncntnanacn nnnnnntngn nnnnnagnnn nnnnnnnnnn nnnnnnnnan 60  
actatgactg attacgcan cttggtaccg actcggatcc actagtaacg gccgccagtg 120  
tgctggaatt cgcccttagc gtggtcgcgg ccgaggtaca ttacttggtg ttaacattgt 180  
tggcagtggt agccctttt cagaaagcaa cttgctgtaa gtcagggtgt ccgttccaac 240  
cttcagccag tgaagaggt gtaacaaatg gtaacacaaga gatgattgt ttaaacctat 300  
ctgtggacac ttaatgcaac tgtttaaaaa tgataatcac gagttatgta gcaacgtgga 360  
aatatattta cagaacatta agtggagaaa gcaggacagc aaagtatatt tatactacag 420  
ttataactca acagttcatt tataatgctgn tcatttaaca gttcatttaa acagttcatt 480  
ataactgttt aaaaatatat atgcttatag tcaaaagctg ttgg 524

<210> 257

<211> 814

<212> DNA

<213> Homo Sapien



<220>  
 <221> misc\_feature  
 <222> (1)...(814)  
 <223> n = A,T,C or G

<400> 257  
 ntgggcctct agaagcatgc tcgagcggcc gccagtggtga tggatatctg cagaattcgc 60  
 ccttgagcgg ccgcccgggc aggtactttt tttttttttt tttttttttt tttgatattt 120  
 atttttaact ttatttttat tgnTGacact attacagata gaatgaccac aaccatatta 180  
 acaaaccaaa aacctgtgca cagaacaag atgaagaaa tatatcaaga tgttaaccac 240  
 actcttttga tggTgaaaac atgggtgagt ttctcttcta catttctgta acttcaaagt 300  
 ttctataatg aacacatttc atataaatg gaaatatatg tagtaaagggt ggactaccaa 360  
 aacactagaa tgatgacctt tcaaggaaac cgaacaaaa taaccataat cccacaacaa 420  
 ccacacaact atttcttgct tttcatcttt cttcccatct ttgacattta tgcatactta 480  
 tcactaacac cctaataatc acagactagt gcacagatca agatgttaac agttaattgt 540  
 tgttgggtgt tgggaatatg tgtgaatttt ctttactgaa ttccaaaagt tttgtatgag 600  
 tatgtattat atttgaatg gaaaatacat acataaaatt tattaccaa acaccaaaga 660  
 ttatttaaagg aatttgagac aaaatattta accaaattcc cacaatgaca acactatttt 720  
 agttattttc cacatctttt catttaaaga ctttatgcac acatatttaa cactgntatc 780  
 acaagcgtgt gcactgnaac aggattgagg aaan 814

<210> 258  
 <211> 474  
 <212> DNA  
 <213> Homo Sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(474)  
 <223> n = A,T,C or G

<400> 258  
 acagctatga cctgattacg ccaagcttgg taccgagctc ggatccacta gtaacggccg 60  
 ccagtggtgt ggaattcggc cttagcgtgg tcgcggncca ngtacattat ttggaggact 120  
 taaaatctgn atgtggacat ggtcccaact tantgtccgt taactagtta tccaaattgt 180  
 aanagctaca gaaagcccag ttgaggggta antgtgcctg gntcacacag cctgcacctt 240  
 gtcacctcgg caatgagcca gtgtggggca ctggggactt ctaacccttg gattgctctt 300  
 ttgacacctg gcataccttc taattgnaaa atatatctca gaccgagagt acntgcccgg 360  
 gcggccnctc aaaagggcga attctgcaaa tatccatcac atggcggcgg ntngagcatg 420  
 catctaggag ggcncaatc ccctatagng agtngtatta caattcactg gcnc 474

<210> 259  
 <211> 809  
 <212> DNA  
 <213> Homo Sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(809)  
 <223> n = A,T,C or G

<400> 259  
 ntgggcccnt agangcatgc tcgncggccg ccatgtgatg gatattctgca gaattcgccc 60  
 ttctgagcgg ccgcccgggc aggtactcac ggtctgaaat atattttaca attagaaggt 120  
 atgcacaggt caaaaagagc aatccaaggg ttagaagtcc ccagtgcgcc acactggctc 180  
 attgccgagg tgacaggggtg caggctgtgt gagccaggca cacttacccc tcaactgggc 240  
 ttctgtagct ttacaatttg gataactagt tagcggacag tagttgggac atgtcacata 300  
 cagatttgag tctccaata atgtacctcg gcccgaccca cgctaagggc gaattccagc 360  
 acactggcgg ccgttactag tggatccgag ctccgtacca agcttggcgt aatcatgggtc 420  
 atagctgttt cctgtgtgaa attgttatcc gctcacaaat ccacacacaa tacgagccgg 480  
 aagcataaag tgtaaagcct ggggtgccta atgagtgagc taactcacat taattgcgtt 540

```

gcgctcactg cccgctttcc agtcgggaaa cctgtcgtgc cagctgcatt aatgaatcgg      600
ccaacgcgcg gggagaggcg gtttgcgtat tgggcgctct tccgcttcct cgctcactga      660
ctcgtcgcgc tcggtcggtc ggctgcggcg agcggatatca gctactcaaa ggcggttaata      720
ccgttatnca cagaatcang ggatacgcat gaaagaacat gtgagcaaaa ngccacaaaa      780
ggccaggaac cgtaaaaagg ccgcgctttg                                     809

```

<210> 260  
 <211> 713  
 <212> DNA  
 <213> Homo Sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(713)  
 <223> n = A,T,C or G

```

<400> 260
ctcttttaaac gccagctcga ntccganntc taccntgac aannnnngtn ccggnctgga      60
attcgnccctt tcgagcggcc gcccgggcag gtacttgagt tcatgggcat ctctcccgcc      120
gcctctcagc ctatctgcac catgtctcac acgttcagtt gcagctctta ccgttttgaa      180
ggcgcacgtg ggaagaagt cctgggcagc acaagaaagt caatcacgtt gagacagaga      240
gagcaggaga ggaagtgggc cccagtagaa gtgggcgaga gagcgttggg tgggaacgtg      300
gcacgagaga gagaaattat gagattgaga gagagagaga gagagagaga gagagagaga      360
gaaagagana ganagaggga aaganaaaga gacagagaaa agaaactatt gttggttaaa      420
atggccagcg aaagtccatg ggggtgaatg agtcggcaa tggncangga gttagcagct      480
tggcgtagtg tctttcactg ntttggctgt cttgagaata gcattcnacn ccgactgtgg      540
ttccccanca gactttagnc ngttgccng ncttgaattg ccggaccaag gttaacatag      600
gcttttcggg tctnaatatt tttggggctn gaatantcgg aaccntttgg gctggggccat      660
ttaccgcgntn cnnctgggt nnnacatttt tcttgntaa tccgccttt tng                                     713

```

<210> 261  
 <211> 722  
 <212> DNA  
 <213> Homo Sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(722)  
 <223> n = A,T,C or G

```

<400> 261
acgcanttag gtaccgagct cggatcccta gtaacggccg ccagtggtgt ggaattcggc      60
cttagcgtgg tcgcgcccg aggtactcct cagccatgcc gaaggtectc ttccgggact      120
cttcgatggc agacagcagg gcattgtcct tctcattctt caggaagccc tgcagctctt      180
aaatttaagg agttacagaa cggtcgatgc tgnccatcac tgcagctctt ccaaaccctc      240
ttatatgaga tgagctctgt cggaaaccagt gctcaagttt tccccacccc aaactgcctg      300
aattgaggga tgggggtggg gagaaggaca gagagaagag aaaaagagag aaagaagana      360
aaggaaaaga acaaccctc tgcaagtgtc gatgtgactg aagcactaaa gagtcaaatt      420
aaacaatgaa gattgcaggg tccctttaaa aaggggtgcac tgcagncccc ngagcacanc      480
natcccatte gnttgngccg ctncacanat tctagagaaan tcnnccatca tgtttgaaan      540
gcncaaaant gatgggannt cccgnntacg cggggactta attctgcctt gggaaatcaa      600
ggaanacttt gnttggangc ggcanntnaa anntggcctt aagaangnng tgngaatttg      660
ttggccaaac nantngaaag gtnttccggc cgatnggtcc ctgattttta aggatttnaa      720
ng                                     722

```

<210> 262  
 <211> 705  
 <212> DNA  
 <213> Homo Sapien

<220>  
 <221> misc\_feature

&lt;222&gt; (1)...(705)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 262

acgcttttaa	cnccagcttg	gtaccgagct	cggatcccta	gtaacggccg	ccagtgtgct	60
ggaattcgcc	cttgccgccc	gggcaggtag	ctgatatttt	gaacttttaa	ttgctatcaa	120
atttcagctc	tggttttatg	cattgttgta	atttctcagt	gaatcccagt	gcttctttcc	180
ttcttgaaaa	atgccatttc	gcccaggcgc	ggtggctcat	gcttgtaatc	ccagcacttt	240
ggtaggccga	ggtgggtgga	tcagctgagg	tctgtagtgc	aagaccagcc	tggctaaccat	300
gatgaaaccc	tgtctctacc	aaaaatacaa	aaaaaaacta	gccaggcatg	gtgttgtagt	360
cctgtaatcc	cagctactca	ggaggctgag	acaggagaat	cgcttgaacc	tgggagggtg	420
aggttgccagt	gagccaagat	cgcgccactg	cactncaacc	tgggcaacag	agtgaactc	480
catctcaaaa	naannaaaaa	ggaaaatgcc	atttcttggg	cccantgcc	atatgcacca	540
agaatgttng	taggaactac	tttggctctg	ctgcagaagt	tcttaactca	gcattaaaaa	600
tccaacggtt	gatttgatct	cttaaaatgg	ttttcnnant	ttgganctga	aattgagnat	660
aaattacctt	tgcnnntnaa	ttcaaaaangt	tnaacctnnt	tnann		705

&lt;210&gt; 263

&lt;211&gt; 656

&lt;212&gt; DNA

&lt;213&gt; Homo Sapien

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(656)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 263

acnccgcttgt	accgagctcg	gatccctagt	aacggccgcc	agtgtgctgg	aattcgccct	60
tagcgtgggc	gcggcccgag	gtaccgcggg	ggagaacgcc	agggagctgt	gagagtgtgc	120
agtcgcgttc	ctgctgtccg	gacacttttt	tcctctactg	agactcatct	ggtagatccg	180
caggccagtc	ctcccagggg	ctgaagtgtg	gaaatatggg	ttttctaaga	agattaatct	240
atcggcgtag	accaatgac	tatgtagaat	cttctgagga	gtccagtgat	gagcaacctg	300
acgaagtggg	atcaccaact	caaagtcagg	attctacacc	tgctgaagag	agagaggatg	360
agggagcatc	tgcagctcaa	gggcaggagc	ctgaagctga	tagccaggaa	ctgggttcagc	420
caaagactgg	gtgtgagctt	ggagatgggc	ctgataccaa	gagggntntg	ctgcgaaatg	480
aagagcagat	gaaactgccc	gnagaaggcc	agacctgann	cgatagcagg	acagttcccc	540
gaaactgggtg	tagcgcgaat	gtctgtgtca	gagtgccctg	ccaatcaagg	agtgaacctt	600
gggaataagc	atccagctta	aagannccct	ganggttagt	gtctngtgaa	ttncct	656

&lt;210&gt; 264

&lt;211&gt; 752

&lt;212&gt; DNA

&lt;213&gt; Homo Sapien

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(752)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 264

ggnttgaang	tatacgactc	nctangggca	attgggccct	ctagatgcat	gctcgagcgg	60
cccgccagtg	tgatggatat	ctgcagaatt	cgcccttagc	gtggtcgcgg	ccgaggtagc	120
tttgataatt	cctagacctc	tattttcatt	ctgtgtatta	atgtgaataa	cagatggata	180
ttttaatatt	taaggcagat	ggtaaaacttt	cctataggct	ttgtgagact	tcgtcttata	240
ggctgaacac	cattcacaaa	atgtaataat	gcttcattcc	ttcagggttg	ggtaaaagac	300
ttgagcaact	ggattagcaa	agctgcaaag	aatgaaatgt	ggcctaagat	gtaattatgt	360
tctctgcctt	tcctttgggc	cagggtagtt	ttgcacttga	cacaatggaa	aataggccat	420
aaagcctgaa	aataaaaatgt	tctaaacccc	aatctcacag	cacttttagt	ggcttttcac	480
taggcattct	taaaagtatt	tcaacaaaat	actaattaag	ctaccacttc	aaaagagctt	540
caaggaaaag	ctctgctttc	ttataaaatc	tttttgagac	agagtttccg	ctcttgctag	600
cacaggctgg	agtgcgaatg	ccgtgatctc	gactnaaccg	naaccttcgg	cctgctgggt	660

tcaagtgatt ctctagncct caagcttctg agtaggttgg gattacaggc gcccgncaa 720  
ccacacctgg gctaaatddd ggatttctan gn 752

<210> 265  
<211> 747  
<212> DNA  
<213> Homo Sapien

<220>  
<221> misc\_feature  
<222> (1)...(747)  
<223> n = A,T,C or G

<400> 265  
gngntttcnc nnngcgctct anagcatgct cgagcggccg ccagtgtgat ggatatctgc 60  
agaattcgcc ctttagcgtgg tcgcggccga ggtacctttg atnattccta gacctctatt 120  
ttcattctgt gtattaatgt gaataacaga tggatattgt aatatttaag gcagatggta 180  
aactttccta taggtcttgt gagactnctt cttataggct gaacaccatt nacnanntgt 240  
antaatgctt nattccttca ggcngaggtn nanaacttga gcacctggat tagcagcagc 300  
tgcgaagaat gaaatgcngc ctaacatgta attatgnatc tctgnccttc ctttgggcca 360  
gggtagtnat gcncatagaca cantggatga tangccatna agcctgannn tagnaatgatc 420  
taaaccnnaa tctnncagca ctttattagg ctantcacta ggcattctta agagtnggtt 480  
ccnttaata ctagncaacc nncactctca aaanancctt aagganaagc tntgntntnt 540  
tanaaaatct ttctgnnaca cantttnacn cttggcgenc angctggant gcaatggccg 600  
tgatctctac tcacccgaan cctcngactg ctgagttcaa gtgattgtct gnccttanct 660  
ctccgggacc angnttnggg attancaagc ctgcgggcca annacagggtg nctaattgnt 720  
tgcattngcn taaaatnagg acaccng 747

<210> 266  
<211> 738  
<212> DNA  
<213> Homo Sapien

<220>  
<221> misc\_feature  
<222> (1)...(738)  
<223> n = A,T,C or G

<400> 266  
cgnnmntgaa ggnatcgact cactataggg cgaattgggc cctctagatg catgctcgag 60  
cgcccgccag tgtgatggat atctgcagaa ttgcgccctt cgagcggccg cccgggcagg 120  
tacagctgaa gtttgataac aaagaaatat atataagaca aaaatagaca agagttaaca 180  
ataaaaacac aactatctgt tgacataaca tatggaaact ttttgcaga aagctacatc 240  
ttcttaatct gattgtccaa atcattaaaa tatggatgat tcagtgccat tttgccagaa 300  
attcgtttgg ctggatcata gattaacatt ttcgagagca aatccaagcc attttcatcc 360  
aagtttttga catgggatgc taggcttctg gtttccattt gggaaatgta ttcttatagt 420  
cctgtaaaaga ttccacttct ggccacactt cattattggg agtgcccaaa gctctgaaat 480  
cctgaagagt tgatcaattc tgaatcccat ggaaaagtgg ttcttagtgc tagtcaacaa 540  
atatngngnc ctatactcca aaggtcactt ggagttgagt natggagctg accccagcat 600  
acttttggaa aactggacca agtggttgc ccacnttaa aaaatttaaa accggngta 660  
ttttaataaa ggtggaagaa accttttctt tttttattta aggaattcac ttagcnctta 720  
ctaaattcat ggtggggg 738

<210> 267  
<211> 731  
<212> DNA  
<213> Homo Sapien

<220>  
<221> misc\_feature  
<222> (1)...(731)  
<223> n = A,T,C or G

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<400> 267
gngnntttgn aagggccctc tagatgcatg ctcgagcggc cgccagtgtg atggatatct 60
gcagaattcg ccccttcgag cgccgcccgg ggcaggtaca gctgaagttt gataacaaag 120
aaatatatat aagacaaaaa tagacaagag ttaacaataa aaacacaact atctgttgac 180
ataacatatg gaaacttttt gtcagaaagc tacatcttct taatctgatt gtccaaatca 240
ttaaaatatg gatgattcag tgccattttg ccagaaattc gtttggctgg atcatagatt 300
aacattttcg agagcaaatc caagccattt tcaccaagt ttttgacatg ggatgctagg 360
cttcctggtt tccatttggg aaatgtattc ttatagtcct gtaaagattc cacttctggc 420
cacacttcat tattgggagt gcccagagct ctgaaaatcc tgaagagttg atcaatttct 480
gaatcccat ggaaaagtgg ttcttagttt gctagttcag caaatatggt gcctatactc 540
caaatgcaa ctggagttga gtaatgagct gacccagca atacttctgg agatctgtca 600
agtggttgca acaccattaa aaaatataaa agcagtagtt atattaaaat aatgttgaag 660
aaaacatatn cctatatatt tnaaggaatt tcactaagca ctactaaatt tcatgttggt 720
gggangngtt a 731

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<210> 268

<211> 745

<212> DNA

<213> Homo Sapien

<220>

<221> misc\_feature

<222> (1)...(745)

<223> n = A,T,C or G

```

<400> 268
gnnnnnntaa agnanacntc actatanngc gaattgggccc ctctagatgc atgctcgagc 60
ggccgcccagt gtgatggata tctgcagaat tcgccctttg agcggccgcc cgggcaggta 120
cttccacac aggtttgttg taaaaattaa gtgagctaag gtgtataaaa tacttcagtg 180
ctgaataaat gttggctttt attatatatt gttaaaaaac aacacaggct gggatatgata 240
gctcagcctc ataatcctag catttaggga ggccaaggca ggaggattgc ttgagtcagg 300
gggtttgaga ccagcctggg caacatagtg agaccctatc tctacaaaat aaaataaatt 360
agtggggcat ggtggcacat gcctgtagtc ccagctactc aggaggctga ggtgggagga 420
ttgcttgagc ccaggaggta gaggttgagc tgagctgtga tcacaccact gcactccagc 480
gtcggtgagc gagtgagaac ctatctcaa caaacaaaca aaaaaacca aaacaaacaa 540
aaaaatccag taaagacaga gattcctaaa attctacaat tctaaaaacc agtagggctc 600
actgaatata agagaggcaa gcaaaaaatt actccaatat tttgagtttg ggtaacctgg 660
aatatgggtc atttattgag taaatagtta ctgagtccta actatgtgcc acacactggg 720
ttaacacttg gcactgtctc ttatg 745

```

<210> 269

<211> 730

<212> DNA

<213> Homo Sapien

<220>

<221> misc\_feature

<222> (1)...(730)

<223> n = A,T,C or G

```

<400> 269
gntnnnttt tnaanceggt cctnntgcat gctcgagcgg cccgccagtg tgatggatat 60
ctgcagaatt cgccctttga gcggccgccc gggcaggtac ttcccacaca ggtttgttgt 120
aaaaattaag tgagctaatt tgtataaaat acttcagtgc tgaataaatg ttggctttta 180
ttatatattg ttaaaaaaca acacaggctg ggtatgatag ctcacgccta taatcctagc 240
atthagggag gccaaaggcag gaggattgct tgagtccagg ggtttgagac cagcctgggc 300
aaaatagtga gacccctatc ctacaaaata aaataaatta gttgggcatg gtggcacatg 360
cctgtagtcc cagctactca ggaggctgag gtgggaggat tgcttgagcc caggaggtag 420
aggttgagc gagctgtgat cacaccactg cactccagcg tcggtgacgg agtgagaacc 480
tatctcaaac aaacaaacaa aaaaacccaa aacaaacaaa aaaaatccag aaagacagag 540
attcctaaaa ttctacaatt ctaaaaacca gtagggtca ctgaatataa gagaggcaag 600

```

```
caaaaaatta ctccaatatt ttgagtttgg gtaacctgga atatggatcat tattgagtna 660
atagttactg agtcctacta tgtgcccaca ctgggtnaac acttgccactg tctcttatga 720
aatcttccan 730
```

```
<210> 270
<211> 713
<212> DNA
<213> Homo Sapien
```

```
<220>
<221> misc_feature
<222> (1)...(713)
<223> n = A,T,C or G
```

```
<400> 270
aattgggccc tctagatgca tgctcgagcg gccgccagtg tgatggatat ctgcagaatt 60
cgcccttttcg agcggccgcc cgggcaggta caaaccaata gctcctattc tggaagggttt 120
tctttttatt taaaaaaaaat tcaaacagg ttaaaagtca agcaagaagg gaagagagaa 180
actgggttct gagaaaaaaa tgtgccagta taaaataaac tctaaatgc gtgcttgta 240
tctctagtt ttttttttaa gttgaatttc ttttccactg taacttaaga tttgagattg 300
aggtttgcgg tccagaacat accctcagca gatacagtga ctaactggaa agtgcagttg 360
ttcaaggctc gtcagtctca atcacctaaa gctataattt gnttgatata ttaagcatgt 420
agacctagtg cagcatggga gccactcagg aagtttatgc aattaataaa ctttcagcat 480
aatcttactat gaagtatgca gaatttcacc ctcttctcca cacttaacat ttagttgtat 540
atgtgaactc tcttttctta attggggaat gtagcattat atagaatgtt gntaaaggta 600
attttaatcc tttttgacat taaccttttt tttttttggn aaaccaagtg atctgccttt 660
cagcaactgg cttatttttg gtccttgaaa ctgngatttt tatttcattn gnc 713
```

```
<210> 271
<211> 702
<212> DNA
<213> Homo Sapien
```

```
<220>
<221> misc_feature
<222> (1)...(702)
<223> n = A,T,C or G
```

```
<400> 271
gntcagagcg gccgccagtg tgatggatat ctgcagaatt cgcccttttcg agcggccgcc 60
cgggcaggta caaaccaata gctcctattc tggaagggttt tctttttatt taaaaaaaaat 120
tcaaacagg ttaaaagtca agcaagaagg gaagagagaa actgggttct gagaaaaaaa 180
tgtgccagta taaaataaac tctaaatgc gtgcttgta tctctagtt ttttttttaa 240
gttgaatttc ttttccactg taacttaaga tttgagattg aggtttgcgg tccagaacat 300
accctcagca gatacagtga ctaactggaa agtgcagttg ttcaaggctc gtcagtctca 360
atcacctaaa agctataatt tgtttgatat attaagcatg tagacctagt gcagcatggg 420
agccactcag gaagtttatg caattaataa actttcagca taatttacta tgaagtatgc 480
agaatttcac cctcttctcc acacttaaca tttagttgta tatgtgaact ctctttctt 540
aattggggaa tgtncattat atagaatgtt ggttaaaggta attttaatcc tttttgacat 600
taaccttttt ttttttttgg taaaccaagt gatctgnctt ttaacaactg gcttatttgg 660
gtcctttgna actgggaatt ttatttcatt tgnnccctcg cc 702
```

```
<210> 272
<211> 736
<212> DNA
<213> Homo Sapien
```

```
<220>
<221> misc_feature
<222> (1)...(736)
<223> n = A,T,C or G
```

&lt;400&gt; 272

gnnntttgan	nnnnnnnnnn	ntatagggcg	aattggggccc	tctagatgca	tgctcgagcg	60
gccgccagtg	tgatggatat	ctgcagaatt	cgccctttcg	agcggccgcc	cgggcaggta	120
ctttttttta	ttcctcagtt	aaaacatgcc	tggtattctt	tttgtaatac	ttaaagcaatt	180
ttattttaaa	gatatactac	ttagtccatc	cgtctccact	tggttttttt	ttttgnnant	240
anngggttg	ttcctntaan	nccacnggtt	ttaaanceat	nntngtcnnn	ggnaaattan	300
ntttantnat	taaaantnnn	tnnctngca	aanntccagn	taaaatttta	gtgggggggg	360
ggggttantt	acnggnaann	aattaantnc	nggnaatan	tttaannntt	ggnaangnac	420
nntngnnnta	annattattt	nnttnanntt	tttaataann	annaatttta	ntttgnaacn	480
ntggtnntta	ntaannggaa	ahnccaatta	attggttggt	tgnatttttc	ccagnaaccn	540
ntccntgggc	nggaacnncc	ntangggnaa	nttcnagnnn	ntngngggcn	gtncnnaggg	600
nnnccaacnt	nggcccancn	tggnggaann	nnnggcnnna	nnggttcccn	ggggnaaatg	660
gtattcngtt	cnaatccnnc	aantcccaac	ccggagnctt	aangggtaan	nccngggggg	720
cntannagagn	gcctaa					736

&lt;210&gt; 273

&lt;211&gt; 715

&lt;212&gt; DNA

&lt;213&gt; Homo Sapien

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)... (715)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 273

gngntttnac	ganngnnnnn	nnnnnctgct	cgagcggccg	ccagtgtgat	ggatatctgc	60
agaattcgcc	ctttcgagcg	gccgcccggg	caggtacttt	tttttatcc	tcagttaaaa	120
catgcctggt	attctttttg	taatacttaa	gcaattttat	tttaaagata	tactacttag	180
ttcatccgtc	tccacttggt	tttttttttt	gnnantanng	ggttgggtcc	nttaanncna	240
cnggtnttaa	anccannnnn	gtcnnnggna	aattannntt	antcnntaaa	nntnnnnnnc	300
ntggnaannn	tccagntaaa	atttnagtgg	gggggggggg	ttaattancg	gnaannantt	360
aantnccgga	naatanttta	annnttggnn	angnacnttn	gnntaagna	ttatttnntt	420
cannttttta	atnantanna	attttaattt	gnaancntgg	nntttannaa	nnggaaannc	480
caattaattg	gttggttgna	tttttccca	naaccnnncc	ntgggcngga	acancnttaa	540
ggncaaatcn	accaantgnc	ggccgtacna	aggggatcca	acntngggcc	ancctggngg	600
naataatggc	cnaantgggt	nccnggggna	aatgggnattc	cgttcaaat	ccnccanntc	660
cnaccgggag	ccttaagngg	taaacctggg	ggcctaangg	ggggcctaac	tcaat	715

&lt;210&gt; 274

&lt;211&gt; 746

&lt;212&gt; DNA

&lt;213&gt; Homo Sapien

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)... (746)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 274

gnnntnnan	gnntacgact	cactataggg	cgaattgggc	cctctagatg	catgctcgag	60
cgcccgccag	tgtgatggat	atctgcagaa	ttcgccctta	gcgtgggtcgc	ggccgaggta	120
ccagggtggc	tgacgcacat	cccctaaaca	ttctggatct	cttactcatc	tgaaaaggca	180
gacgtcttaa	gtctaaagtc	tagggtagga	gtttccattc	tttggaatac	caaagatggg	240
tactcttctt	aatgaaactg	agaagaaggt	atctacagaa	aacactgaat	ttaaacaaat	300
tatgaacctg	tttgttgaag	ccatcaagga	cccaagatat	atcaaagaac	aacatctctg	360
tattggccta	caggttcaga	gtgttttgag	gtctgtttta	gcactaatag	gatttttaggc	420
cagcatccag	tcagaagaga	tagttcacag	actcagagtt	ggaaaacagat	taaaaaaaaa	480
aagatgtcaa	catagaaaat	gatgatagag	tttagttaaa	aaaattcaca	cataaaatta	540
cagttaaaaa	aattcacaca	taaaatagag	tgtttgcata	gcaagacatt	attgcccttc	600
agcctggcag	aaaaacataa	actcaggtgt	atattttata	ataaacattg	nattgaatgc	660
taagaatgat	acactgggtga	acatctnctg	aatggttgcc	ttcttgtaaa	tcataccaat	720

tggttagaca attgaaattn ccagct

746

<210> 275  
<211> 725  
<212> DNA  
<213> Homo Sapien  
  
<220>  
<221> misc\_feature  
<222> (1)...(725)  
<223> n = A,T,C or G

<400> 275  
gnnnttaann ccttccctnt anatgcatgc tcgagcggcc gccagtgtga tggatatctg 60  
cagaattcgc ccttagcgtg gtcgcggccg aggtaccagg tgggctgacg cacatcccct 120  
aaacattctg gatctcttac tcatcgtgaa aggcagacgc tctaagtcta aagtctaggg 180  
taggagtttc cattctttgg aaaaccaaag atggttactc ttcttaatga aactgagaag 240  
aaggatatcta cagaaaacac tgaatttaaa caaattatga ccttgtttgt tgaagccatc 300  
aaggacccaa gatatatcaa agaacaacat ctctgtattg gcctacaggt tcagagtgtt 360  
ttgaggtctg ttttaagcact aataggattt taggccagca tccagtcaga agagatagtt 420  
cacagactca gagtgggaaa cagattaaaa aaaaaaagat gtcaacatag aaaatgatga 480  
tagagtttag ttaaaaaaat tcacacataa aattacagtt aaaaaaatc acacataaaa 540  
tagagtgttt gcatagcaag acattattgc ccttcagcct ggcagaaaaa cataaactca 600  
ggtgtatatt ttataataaa cattgnattg aatgctaaga atgatcactg ttgaacatct 660  
cctgaatggt ttgccttctt gtaaatcata ccaatgggta gacaattgaa attccagctc 720  
tttct 725

<210> 276  
<211> 744  
<212> DNA  
<213> Homo Sapien  
  
<220>  
<221> misc\_feature  
<222> (1)...(744)  
<223> n = A,T,C or G

<400> 276  
nnnnntgann gtatacgact cactataggg cgaattgggc cctctagatg catgctcgag 60  
cgcccgccag tgtgatggat atctgcagaa ttcgccctta gcgtggctgc ggccgaggta 120  
cttctgctgt ggtaactcaa gtaaccctcc gttaaaccac ggacagacct atgctgacaa 180  
ccatttttat cactcttagt ggtattttct ttctttgac atgaatgcat atttctgctc 240  
ttaatggcc tttggtattt aagattacat tcagctagtc tccttattgc atgttgtttt 300  
attccagtc caccagcact cagaacaaca gcaagtgtgt gtaacagcgg gcacaggcgc 360  
tcagacgga aggacctcac tgacgcagtt agctcaggta gagcttattt ctgtgttcaa 420  
ttttcttgct atgagaagca gtgacccta agaatttgta tccctttgtt cacttctttg 480  
ttttaggaga gaaacttcta aagcattact ctaaaagggt atagagacag agacgggcca 540  
ttttcatcta cccttgcag agttaagttt tattacagta agttgtgagg tgagacatga 600  
tggctgcagg cacatagta agatctaccc ttctaaggaa ataaaacggg gaaaagtggg 660  
tgaatgtcca atatagaaa tttaatcacc actttcccaa aaaagaataa atggaggact 720  
ncattggaat tatggaaatg aan 744

<210> 277  
<211> 724  
<212> DNA  
<213> Homo Sapien  
  
<220>  
<221> misc\_feature  
<222> (1)...(724)  
<223> n = A,T,C or G



```

<400> 277
gnnnnttncg antgggccct ctagatgcat gctcgagcgg ccgccagtgt gatggatatc 60
tgcagaattc gcccttagcg tggctcgcg cagggtactt ctgctgtggt aactcaagta 120
acctccggtt taaaccagga cagacctatg ctgacaacca tttttatcac tcttagtggt 180
attttctttc tttgaacatg aatgcatatt tctgctcttt aatggccttt ggtattttaag 240
attacattca gctagtctcc ttattgcatg ttgttttatt ccagtccac cagcactcag 300
aacaacagca agtgtgtgta acagcgggca caggcgctcc agacggaagg acctcactga 360
cgcagttagc tcaggtagag cttatttctg tgttcaattt tcttgatg agaaagcagt 420
acctctaaga atttgatcc ctttgttcac ttctttgttt taggagagaa acttctaaag 480
cattactcta aaaggtgata gagacagaga cgggccattt tcatctaccc ctgcagagt 540
taagttttat tacagtaagt tgtgagtgga gacatgatgg ctgcaggcac atagtcaaga 600
tctacccttc taaggaaata aaacggggaa aagtggttga atgtccaata tagaaaattt 660
aatcaccact ttccaaaaaa gaataaatgg aggactncat tgtaattatg gaaatgaaat 720
ttgg 724

```

<210> 278

<211> 748

<212> DNA

<213> Homo Sapien

<220>

<221> misc\_feature

<222> (1)...(748)

<223> n = A,T,C or G

```

<400> 278
gnnnntgaaa gtatacgact cactataggg cgaattgggc cctctagatg catgctcgag 60
cggcccgcca gtgtgatgga tatctgcaga attcgccctt tcgagcggcc gcccgggcag 120
gtacagctgc ccaaggcggt tcgtaacggg aatgccgaag cgtgtgaaaa agggagcgggt 180
ggcggaagac ggggatgagc tcaggacaga gccagaggcc aagaagagta agacggccgc 240
aaagaaaaat gacaaagagg cagcaggaga gggccagcc ctgtatgagg acccccaga 300
tcagaaaacc tcaccagtg gcaaacctgc cacactcaag atctgctctt ggaatgtgga 360
tgggcttcga gcctggatta agaagaaagg attagattgg gtaaagggaag aagccccaga 420
tatactgtgc cttcaagaga ccaaattgtt agagaacaaa ctaccagctg aacttcagga 480
gctgcctgga ctctctcatc aatactgggc agctccttcg gacaagggaag ggtactagca 540
actaaccatg gttaaaaggc cttagtgcga attacaaaaa caaacattt agagtaatac 600
ttatgaatac aagcataatt ggttcctcgc cttctacaaa taaccatctt gaaaatgata 660
aaagcaggtt tcaactgtgg tcttctctca ttgagaaggc gcagatacac atggggtgatc 720
tactgattta cttcttgaa agtnctcg 748

```

<210> 279

<211> 727

<212> DNA

<213> Homo Sapien

<220>

<221> misc\_feature

<222> (1)...(727)

<223> n = A,T,C or G

```

<400> 279
gnnnnttcga ntgggccctc tngngcatgc tcgagcggca cgccagtgtg atggatatct 60
gcagaattcg ccctttcgag cggccgcccg ggcagggtaca gctgcccaag ggcgttcgta 120
acgggaatgc cgaagcgtgt gaaaaaggga gcggtggcgg aagacgggga tgagctcagg 180
acagagccag aggccaaaga gtagtaagacg gccgcaaaaga aaaatgacaa agaggcagca 240
ggagagggcc cagccctgta tgaggacccc ccagatcaga aaacctcacc cagtggcaaa 300
cctgccacac tcaagatctg ctcttggaat gtggatgggc ttcgagcctg gattaagaag 360
aaaggattag attgggtaaa ggaagaagcc ccagatatac tgtgccttca agagacaaaa 420
tgttcagaga acaaaactacc agctgaactt caggagctgc ctggactctc tcatcaatac 480
tggtcagctc cttcggacaa ggaagggtac tagcaactaa ccatgggtta aaggtcttag 540
tcagaattac aaaaaaaaaa catttagagt aatacttatg aatcaagcat aattgggtcc 600
tcgccttcta caaataccat ctttgaaaat gatnaaaagc aggtttcaac tgtggttctt 660

```

ctctcanttg aaaaggtcag atcccatggg tgatctactg atttaccttc tgaaaagtac 720  
ttggccg 727

<210> 280  
<211> 751  
<212> DNA  
<213> Homo Sapien

<220>  
<221> misc\_feature  
<222> (1)...(751)  
<223> n = A,T,C or G

<400> 280  
gnnnntgann gtatacgact cactataggg cgaattgggc cctctagatg catgctcgag 60  
cggccgcccag tgtgatggat atctgcagaa ttccgccccta gcgtggtcgc ggccgaggta 120  
ctcatgtatt tttttttttt tccagatctc tttcccacag ttgctattgt aagagtattc 180  
tgctgcgtgt ggatgcagtt atacacatta aagcagatct ggagtctgaa gtagctataa 240  
agcagctata aaacagaaat acatgcatag ctgcagaaac catgataggt agaggacttt 300  
tcttttggtt ttgttttggt ttgttttggt ttgttttggt ttttacagag aagagatttt 360  
tattacaaag aaaaaaattc cagtgaattg tgcagaaatg ctggttttta caccatccta 420  
aagaaaaact ttacaagggt gttttggagt agaaaaagg ttataaagtt ggaatcttaa 480  
attgtaaaat taaccattga gtgtcaaagt tctaaaagca gaactcattt tgtgcaatga 540  
acataaggaa agactactgn ataggttttt tttttctcct tttaaatgaa gaaaagcttt 600  
gcttaagggt tgcatacttt tattggagta aatctgaatg atcctactcc tttggagtaa 660  
aactagtgtc taccagtttc caattggatt taacttctgg ggtggaattt ggaaaaaaa 720  
agaannnnngg aaaaagaaaa cctaanttaa n 751

<210> 281  
<211> 727  
<212> DNA  
<213> Homo Sapien

<220>  
<221> misc\_feature  
<222> (1)...(727)  
<223> n = A,T,C or G

<400> 281  
gnnnttcgan tgggcccctct agatgcatgc tcgagcggcc gccagtgtga tggatatctg 60  
cagaattcgc ccttagcgtg gtccgcccgc aggtactcat gtattttttt ttttttccag 120  
atctctttcc ccaagttgct attgtaagag tattctgctg cgtgtggatg cagttatata 180  
cattaaagca gatctggagt ctgaagtagc tataaagcag ctataaaaca gaaatacatg 240  
catagctgca gaaacatga taggtagagg acttttcttt tggttttggt ttgttttggt 300  
ttgttttggt tttggtttta cagagaagag atttttatta caaagaaaaa aattccagtg 360  
aattgtgcag aaatgctggt ttttacacca tcctaaagaa aaactttaca aggggtgttt 420  
ggagttagaaa aaaggttata aagttggaat cttaaattgt aaaattaacc attgagtgtc 480  
aaagttctaa aagcagaact cattttgtgc aatgaacata aggaaagact actgnatagg 540  
tttttttttt ctctttttaa atgaagaaaa gctttgctta aggggttgcac acttttattg 600  
gagtaaatct gaatgacct actcctttgg agtaaaacta gngcttccag tttccaattg 660  
gatttaactt ctggnatggaa tttgnaaaaa aaagaanaaa aggaaaanga aaccctaant 720  
naaatag 727

<210> 282  
<211> 749  
<212> DNA  
<213> Homo Sapien

<220>  
<221> misc\_feature  
<222> (1)...(749)  
<223> n = A,T,C or G

```

<400> 282
tnnaaagnaa gctctttact cactatnngg gccaattggg ccctctagat gcatgctcga      60
gcggcccgcca gtgtgatgga tatctgcaga attctncctt cgagcgcccg cccgggcagg      120
tacttttttt tttttttttt tttttttttt ttttttnaaac tactaggatt tactgttagga      180
taaaagctnt acatggccct gcntacaaac tttctgcata cttctgcaaa tttttatgcn      240
ttactnaatc cattaataat caccttggaa naaactgcaa acncantana aactaaatga      300
natagtcaca gagaacanca aaaatagtaa ttnaagtcc catacaacat caagtgtgtn      360
cagtcatttt tnggttcttc gggttctctt taaaattgaa ttgagtttgn atatgcatat      420
gtatgttagga gtggaggatg gaattaatta tcccaaacat cctacantca ctcctctaata      480
atttctttng ttaacatgca aatctgttct cttcattacg gngatactgc atttacatta      540
caacacantt agagatcatt aactttctcc tttataatca gccattttca caggcctttg      600
atatacaagc acctataata tattcttact catctcacac tttcatttac caaagtgtca      660
aaacaacatt tttacatcat tgatatttgg ttnantttct gcaanctggc tgttanaaaa      720
tgattacttc tnttaaatta ctttttanc

```

<210> 283

<211> 730

<212> DNA

<213> Homo Sapien

<220>

<221> misc\_feature

<222> (1)...(730)

<223> n = A,T,C or G

```

<400> 283
gtctntgaan cnggncctct ngatgcatgc tcgagcgccg gccagtgtga tggatatctg      60
cagaattcgc ccttcgagcg gccgcccggg caggtaacttt tttttttttt tttttttttt      120
tttttttttc aaactactag gatttactgt aggataaaag cntacatgg ccctgcatac      180
aaactttntg catacttntg caaattttta tgcattactc aatccattaa aatcacctt      240
ggaanaaaact gcaaacncaa tagaaactaa atganatagt cacagagaac aacaaaaata      300
gtaatttaag ttcccataca acatcaagtg tgttcagtct atttttggtt cttcgggttc      360
tctttaaaat tgaattgagt ttgtatatgc atatgtatgt aggantggag gatggaatta      420
attatcccaa acatcctaca ctcactcctc taatatttct tttgttaaca tgcaaatctg      480
ttctcttcat tacgnggata ctgcatttac attacaacac aattagagat cattaacttt      540
ctcctttata atcagccatt ttcaagggcc ttgatatac aagcacctat aatataattc      600
tactcatctt acactttcat ttaccaaagt gtcaaaaaca acatttttac atcattggat      660
atttggttta gtttctgcaa nctggctttt anaaaaatga ttacttctct taaattacct      720
tttaccctca

```

<210> 284

<211> 739

<212> DNA

<213> Homo Sapien

<220>

<221> misc\_feature

<222> (1)...(739)

<223> n = A,T,C or G

```

<400> 284
gnnntnaaag tatacgactc actatagggc gaattggggc ctctagatgc atgctcgagc      60
ggccgcccagt gtgatggata tctgcagaat tcgcccttag cgtggtcgcg gccgaggtac      120
aacataaagc aacagagagg tcttcatgtt tgggaagtgg ctgggcagga tgccaaaccc      180
caaatgactt attgagcaat ttctaaacca aacagagagg taggaaaaga ggatgggggt      240
caggggtgga ggctgtggaa aggggagagc gagggctgaa gagaatggca gccatacagg      300
tgttttgttt ttatttcac atctgaggac tgagagtctg atttgcctgc tgtccatttc      360
cgccactcat tgactgtcca tagttcatca tgccattggc tccatagaag ttcacccag      420
ccatctgctg ggtcatctga gtaagggtcc attgcagctg ctgagctggc tggaccccat      480
acacagctcg gggcatagct gccatgectg ccatgtagcc agcctgctgg gtggtcatca      540
ttccattcgg cacaccatc attgatgcct gcatgccacc catatagcct gcaggcatgg      600

```

```
ccatgggggc aaccatccca gaactnctgc tgagcaacca tgcctactgg tggagcatc 660
atgcttccca ttatgctgtt angangtgta ccccnngggaa actggggtag ctgtgggata 720
tccatctgan ccggaccat 739
```

<210> 285  
<211> 721  
<212> DNA  
<213> Homo Sapien

<220>  
<221> misc\_feature  
<222> (1)...(721)  
<223> n = A,T,C or G

```
<400> 285
gnnnttcgan tgggccctct ngatgcatgc tcgagcggcc gccagtgtga tggatatctg 60
cagaattcgc ccttagcgtg gtcgcggcac gaggtacaac ataaagcaac agagaggtct 120
tcatgtttgg gaagtggctg ggcaggatgc caaaccctca atgacttatt gagcaatttc 180
taaaccacaa agagaggttag gaaaagagga tgggggtcag ggggtggaggc tgtggaaagg 240
ggagagcgag ggctgaagag aatggcagcc atacaggtgt tttgttttta tttccacatc 300
tgaggactga gagtctgatt tgctgcctgt ccatttccgc cactcattga ctgtccatag 360
ttcatcatgc cattggctcc atagaagttc atcccagcca tctgctgggt catctgagta 420
aggttccatt gcagctgctg agctggctgg accccataca cagtctgggg catagctgcc 480
atgcctgcca tgtagccagc ctgctgggtg gtcatcattc cattcggcac acccatcatt 540
gatgcctgca tgccacccat atagcctgca ngcatggcca tgggggcaac catcccagaa 600
ctcctggctg agcaaccatg cctactgggt gangcatcat gcttccatt atgctgttag 660
gangtgtacc ccggggaanc tggggtagct gtgggatatc catttaaccg gagccatgaa 720
c 721
```

<210> 286  
<211> 757  
<212> DNA  
<213> Homo Sapien

<220>  
<221> misc\_feature  
<222> (1)...(757)  
<223> n = A,T,C or G

```
<400> 286
gnnnnttaaa gnntacgact cactataggg cgaattgggc cctctagatg catgctcgag 60
cggcccgcga gtgtgatgga tatctgcaga attcgccctt tcgagcggcc gcccgggcag 120
gacgcggggg ttgcaccatg gcgtccatgg ggaccctcgc cttcgatgaa tatgggcgcc 180
ctttcctcat catcaaggat caggaccgca agtcccgtct tatgggactt gaggcctca 240
agtctcatat aatggcagca aaggctgtag caaatacaat gagaacatca cttggaccaaa 300
atgggcttga taagatgatg gtggataagg atggggatgt gactgtaact aatgatgggg 360
ccaccatctt aagcatgatg gatgttgatc atcagattgc caagctgatg gtggaactgt 420
ccaagtctca ggatgatgaa attggagatg gaaccacagg agtggttgct ctggctggtg 480
ccttggtaga agaagcggag caattgctag accgaggcat tcacccaatc agaatagccc 540
gatggctatg agcaggctgc tcgctgtgct attgaacacc tggacaagat cagcgatagc 600
gtccttggtg acataaagga caccgaaccc ctgattcaga cagcaaaaaa ccacgtggg 660
cttncaaaaag tggtaaacag ttgtcaccga cagatggctt gaaaattgct gtgaaatgcc 720
cgctccttact gtaaccagat atngaaccgg aaaagac 757
```

<210> 287  
<211> 726  
<212> DNA  
<213> Homo Sapien

<220>  
<221> misc\_feature  
<222> (1)...(726)

<223> n = A,T,C or G

<400> 287

gnnnnactga	tttctggctc	gaagttgnat	ntgcggncgc	cagtgtgatg	gatatctgca	60
gaattcgccc	tttcgagcgg	ccgcccgggc	aggacgcggg	ggttgcacca	tggcgtccat	120
ggggaccctc	gccttcgatg	aatatgggcg	ccctttcctc	atcatcaagg	atcaggaccg	180
caagtcocgt	cttatgggac	ttgaggccct	caagtctcat	ataatggcag	caaaggctgt	240
agcaaataca	atgagaacat	cacttggacc	aaatgggctt	gataagatga	tgggtgataa	300
ggatggggat	gtgactgtaa	ctaatgatgg	ggccaccatc	ttaagcatga	tggatgttga	360
tcatacagatt	gccaaactga	tgggtggaact	gtccaagtct	caggatgatg	aaattggaga	420
tggaaaccaca	ggagtgtgtg	tcttggctgg	tgccttggtt	gaagaagcgg	agcaattgct	480
agaccgaggg	attcacccaa	tcagaatagc	ccgatggcta	tgagcaggct	gctcgcgttg	540
ctattgaaca	cctggacaag	atcagcgata	gcgtccttgn	tgacataaag	gacaccgaac	600
ccctgattca	gacagcaaaa	accacgctgg	gctccaaaag	tgggtcaacag	ttgtcaccga	660
cagatggctg	aaaatgctgt	gaatgccgtc	ctnctgtanc	agatatngaa	ccggaaaaga	720
ccttga						726

<210> 288

<211> 743

<212> DNA

<213> Homo Sapien

<220>

<221> misc\_feature

<222> (1)...(743)

<223> n = A,T,C or G

<400> 288

gnnntganng	tatacgactc	actatagggc	gaattggggc	ctctagatgc	atgctcgagc	60
ggccgccagt	gtgatggata	tctgcagaat	tcgcccttcg	gccgcccggg	caggtagcctt	120
ttacctaaaa	ttctagccac	tttaatttgg	agagtttcca	gagcaaaagg	cacagatccc	180
aggcataaca	acgctttgcg	tatacagcaa	ccaatatcct	gtcaacccaa	gaaagtctct	240
ccattgatac	ctagttagaaa	tagccccagt	tttaaagtcc	tcaaaaactgt	aacaaattac	300
ttgtttttta	aatttaactt	aaattaatac	aatcagattt	ttgtgttatt	tgggtattag	360
agtatgttaa	agcacatata	tcccagagac	atagagtttc	cgtttcaaaa	agtcattgat	420
tcattgtgtg	taatgacaat	cctatcctga	ccgcgtatgt	gacttgtatc	tctaaaccat	480
aggctttcct	gaattttatc	tgttaattta	accctgatgt	ctcagcagca	gcttctcttt	540
gtaaatagac	ttgcctcttc	tgtgtctgac	ctctgtcctc	cataatcaga	ttactcaga	600
taaagctgct	tcagggaaga	ggtcaaaaacc	gttgccaaaa	atagttagttg	ccctacttca	660
gtctattttc	aacagagtag	cccaggagat	ctgtcacacc	aaagtccaat	cagccctact	720
ggtagcactc	tgntcacaag	ccn				743

<210> 289

<211> 726

<212> DNA

<213> Homo Sapien

<220>

<221> misc\_feature

<222> (1)...(726)

<223> n = A,T,C or G

<400> 289

gnnnnnactc	gcagtcocgt	tagatgcatg	ctcgagcggc	cgccagtgtg	atggatatct	60
gcagaattcg	cccttcggcc	gcccgggcag	gtacctttta	cctaaaaattc	tagccacttt	120
aatttggaga	gtttccagag	caaagggcac	agatcccagg	cataacaacg	ctttgcgtat	180
acagcaacca	atatcttgct	aacccaagaa	agttcctcca	ttgataccta	gtagaaatag	240
cccagttttt	aaagtccctc	aaactgtaac	aaattacttg	tttttaaaat	ttactttaaa	300
ttaatacaat	cagatttttg	tgttatttgg	gtattagagt	atgttaaagc	acatatatcc	360
cagagacata	gagtttocgt	ttcaaaaagt	catgcattca	tgtgtgctaa	tgacaatcct	420
atcctgaccc	gctatgtgac	ttgtatctct	aaaccatagg	ctttcctgaa	ttttatctgt	480
taattttaacc	ctgattttct	agcagcagct	tctctttgta	aatagacttg	cctcttctgt	540

```
gtctgacctc tgctcctcat aatcagatta actcagataa agctgcttca gggaagaggt    600
caaaaccggt gccaaaaata gtagttgccc tacttcagtc tattttcaac agagtagcca    660
ggagatctgt tcacaccaa gtccaatcag ccctactggt agcactctgc tcacaagcct    720
ncagtg                                           726
```

<210> 290

<211> 740

<212> DNA

<213> Homo Sapien

<220>

<221> misc\_feature

<222> (1)...(740)

<223> n = A,T,C or G

```
<400> 290
gnnnngaaag tatacgactc actatagggc gaattgggccc ctctagatgc atgctcgagc    60
ggccgccagt gtgatggata tctgcagaat tcgcccttag cgtggtcgcg gccgaggtag    120
ccagatgtct ttctcggtca ccttcccag accattttaag acctccctag ctgctcgttc    180
tccagcctca actgccccctt ccatgtagcc gctccacttt gtggcagctc ctgtgcccgc    240
aaagaaaate ctgcccacgg gttgacgaat cacccttcca tattgagtca tgatcccagg    300
agggaaagtag gccgtgtagc agccccaga gtacctgccc gggcgggccc tcgaaagggc    360
gaattccagc aactggcgcg ccgttactag tggatccgag ctcggtacca agcttggcgt    420
aatcatggtc atagctgttt cctgtgtgaa attgttatcc gctcacaaat ccacacaaca    480
tacgagccgg aagcataaag tgtaaagcct ggggtgccta atgagtgagc taactcacat    540
taattgcggt gcgctcactg ccgcctttcc agtcgggaaa cctgtcgtgc cagctgcatt    600
aatgaatcgg ccaacgcgcc ggggagaggg ggnttgcgta ttgggcgctc ttncgctttc    660
tngctcactg actcgtcgcg ctcggtcggt cggctgcggc naggcgtatc agctcattaa    720
angcggtaat acggtatccn                                           740
```

<210> 291

<211> 724

<212> DNA

<213> Homo Sapien

<220>

<221> misc\_feature

<222> (1)...(724)

<223> n = A,T,C or G

```
<400> 291
gnnnnnncna ntgggcccctc tngngcatgc tcgagcggcc gccagtgatg tggatatctg    60
cagaattcgc ccttagcggtg gtcgcggcgg aggtacccag atgtctttct cggtcacctt    120
cccgagacca tttaagacct ccttagctgc tcgtttctcca gcctcaactg ccccttccat    180
gtagccgctc cactttgtgg cagtctctgt gcccgcaaag aaaatcctgc ccacggggtg    240
acgaatcacc cttccatatt gagtcatgat ccaggagggg aagtagggcg tgtagcagcc    300
cccagagtac ctgcccgggc ggccgctcga aaggcggaat tcagcacac tggcgccgt    360
tactagtggg tccgagctcg gtaccaagct tggcgtaatc atggtcatag ctgtttcctg    420
tgtgaaattg ttatccgctc acaattccac acaacatacg agccggaagc ataaagtgtg    480
aagcctgggg tgcctaataa gtgagctaac tcacattaat tgcgttgctc tcaactgccc    540
ctttccagtc gggaaacctg tcgtgccagc tgcattaatg aatcggccaa cgcgcgggga    600
gaggcggttt gcgtattggg cgctcttcgg cttcctcgct cactgactcg ctgcgcttng    660
nccgtccggt tgcggcagcg gtataactna ctcaaaggcg gtaataccgg tatncacaga    720
atca                                           724
```

<210> 292

<211> 740

<212> DNA

<213> Homo Sapien

<220>

<221> misc\_feature

&lt;222&gt; (1)...(740)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 292

gnnnnngnang	tatacgactc	actatagggc	gaattgggcc	ctctagatgc	atgctcgagc	60
ggcccgccag	tgtgatggat	atctgcagaa	ttegccctta	gcgtggctgc	ggccgaggta	120
cagaaagaat	caaagaacat	atatatatat	taagtttcat	tccaacctac	aaagagcctg	180
cacttaaaag	tcttaaaagg	ttcctgaatc	atggaatctc	aacttacctg	ccaattaatc	240
cagttctctc	tttttaaagt	cagactccaa	ccttaaacag	aaggcatatt	ctagctgact	300
tctaagtgtg	tccaaagcat	acctcagaga	gccaaagtgg	ctgtgttcaa	tacctattct	360
ttctatagaa	tctcaaaagt	ggcagtatga	tgaagagaaa	agctactttt	tctcctaaaa	420
atacccccct	tcatcatcag	tgtgttgtca	tttttgcatc	acaaagaata	gacattctaa	480
atgttccctt	ccacacagaa	agacataaga	gagaatgtga	gtatgagtga	gagtgtgtag	540
gtaagttgag	ggatagtttg	ctatccaaaa	tgaatcattt	tgaagatgac	tttgtaaaga	600
agtaatatag	ttaaaaatct	caagacatga	gattgangan	ggcagggaaa	taaaggacct	660
angaatggaa	aagagttaca	gcccattgtg	atacatacac	aaacctacca	ggttatttct	720
gngaattctc	acacaggttg					740

&lt;210&gt; 293

&lt;211&gt; 723

&lt;212&gt; DNA

&lt;213&gt; Homo Sapien

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(723)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 293

gnnnnnnnncn	annggccctc	tagatgcatg	ctcgagcgcc	cgccagtgtg	atggatatct	60
gcagaattcg	cccttagcgt	ggtcgcgccc	gaggtacaga	aagaatcaaa	gaacatatat	120
atatattaaag	tttcattcca	acctacaaag	agcctgcact	taaaagtctt	aaagggtttcc	180
tgaatcatgg	aatctcaact	tacctgccaa	ttaatccagt	tctctctttt	taaatgcaga	240
ctccaacctt	aaacagaagg	catattctag	ctgactttcta	agtgtgtcca	aagcatacct	300
cagagagcca	agtgggtctgt	gttcaatacc	tattctttct	atagaatctc	aaaagtggca	360
gtatgatgaa	aagaaaaagct	actttttctc	ctaaaaatac	cccccttcac	catcagtgtg	420
ttgtcatttt	tgcatcacaa	agaatagaca	ttctaaatgt	tcccttccac	acagaaagac	480
ataagagaga	atgtgagtat	gagtgagagt	gtgtaggtaa	gttgagggat	agtttgctat	540
ccaaaatgaa	tcatttttgaa	gatgactttg	taaagaagta	atatagttaa	aaatctcaag	600
agcatgagat	tganganggc	agggaaaata	angcctagga	atggaaaaga	gttaacagcc	660
catgtgaata	catagcacaa	acctaccagg	ttattttctg	gaatctnacc	agtttgctgg	720
aaa						723

&lt;210&gt; 294

&lt;211&gt; 736

&lt;212&gt; DNA

&lt;213&gt; Homo Sapien

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(736)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 294

gnnnnnnnnna	gaccgactca	ctatagggcg	aattggggccc	tctagatgca	tgctcgagcg	60
gcccgcagtg	tgatggatat	ctgcagaatt	cgccctttcg	agcggccggc	cgggcaggta	120
cctgggatta	caggcaccca	ccaccacgcc	tggtcaattt	ttttttgtat	cttttagtagg	180
gttttgccat	gttggccagg	ctggtcttta	actcctacct	cgtgatccac	ccgcctcggc	240
cccccaaagt	gctaggacca	caggcgtgag	ccaccacgcc	cagccccctg	tctctttttt	300
taaaacacaa	tttaaaagca	gaaagaaaaa	atctgtgctg	tttagactca	gattcttaat	360
tagctagtat	ttcttaattc	aatcaataaa	ttattaagac	cttttctactg	ctcccttttt	420
aaagtccttct	ttggagtgat	ttaagtgcct	cttattacca	agctctcaaa	gagaagataa	480

```
aattaaaaatc tgatgggtaa ccattttaat aagacaactg gggtaaccca tttctccagg 540
accctctctc gcaacagaga gctattctct tcttttgccc tagtaaacct ctgctcttaa 600
cctttaaaaa aaaaaaaaaa gtacctcggc cgcgaccacg ctaanggcga attccagcac 660
actggcgccc gtactagtgt gatccgaact cggccaactc tggcgtaatc atggcatagt 720
ggttcctgng tgaaan 736
```

<210> 295  
<211> 725  
<212> DNA  
<213> Homo Sapien

<220>  
<221> misc\_feature  
<222> (1)...(725)  
<223> n = A,T,C or G

```
<400> 295
gnnnnnnnnn annngnccct ctagatgcat gctcgagcgg ccgccagtgt gatggatata 60
tgcagaattc gccctttcga gcggccgccc gggcaggtaac ctgggattac aggcacccac 120
caccacgcct ggctaatttt tttttgtatc ttttagtaggg ttttgccatg ttggccaggc 180
tggtctttta ctcctacctc gtgatccacc cgcctcggcc ccccaaagtgt ctaggaccac 240
aggcgtgagc caccacgccc agccccctgt ctcttttttt aaaacacaat ttaaaagcag 300
aaagaaaaaa tctgtgctgt ttagactcag attcttaatt agctagtatt tcttaattca 360
atcaataaat tattaagacc ttttactgct tcccttttta aagtcttctt tggagtgtat 420
taagtgtctt ttattacca gctctcaaag agaagataaa attaaaatct gatgggtaac 480
catttaataa agacaactgg ggtaaccatc ttctccagga cccctctctg caacagagag 540
ctattctctt tctttggcct agtaaacctc tgctcttaac ctttaaaaaa aaaaaaaaag 600
tacctcggcc gcgaccacgc taaggcgcaa ttccagcaca ctggcgcccg ttactagtgg 660
atccgaactc ggtaccaagc ttgcgtaatc atggcatagc tggttcctgt gtgaaatggt 720
atccg 725
```

<210> 296  
<211> 742  
<212> DNA  
<213> Homo Sapien

<220>  
<221> misc\_feature  
<222> (1)...(742)  
<223> n = A,T,C or G

```
<400> 296
gnnnnnnnnn nnacaaanct gggtagggcg aattgggccc tctagatgca tgctcgagcg 60
gccgccagtg tgatggatat ctgcagaatt cgccttttcg agcggccgcc cgggcaggta 120
ccatgctgac ttcttggtat cttttaaggc ctaatttttc cttccttgag attactgtag 180
tgtgtccag ctaatttcta tttggaacg agttggaaca gctgaaaact aggtattatt 240
gaaggcaaa cagcctcagc tcagtttttt atcagctcat ttgggaagtt tttttttttt 300
ttttttttta attaattaga aagtaggctg ggcaaggctg ctcatgccta taatcccagc 360
acttggggag gccgaggatc tcctctctgg tggatcactt gagggcagga gtttaagagac 420
catcctggcc aacatgatga aaccctgtct ctactaaaaa tacaaaaagt agctgggcgt 480
ggtggcatac tcttacaatc ccagctactt gggaggctga ggcaggagaa tcacttgaac 540
ctaggaagca gaggttgagc tgggccaaga tcacaccact atactctagc ctgggcgaca 600
gaagtgggga aaaaagtagg acccctgtcc tatattcang gttttctcac atatatgaac 660
ccatctaaat tctacgttgg taaaaggaac ctaagggtta tagnctata cttatttaag 720
aaccattntg gggnggagat gg 742
```

<210> 297  
<211> 728  
<212> DNA  
<213> Homo Sapien

<220>



<221> misc\_feature  
<222> (1)...(728)  
<223> n = A,T,C or G

<400> 297  
tnnnntttga annncnacnt ctagnngcatg ctcgagcgccg cgccagtgtg atggatatct 60  
gcagaattcg cccttttcgag cggccgccccg ggcagggtacc atgctgactt cttgggtatct 120  
tttaaggcct aattttccct tccttgagat tactgtagtg tgttccagct aatttctatt 180  
tggaacacgag ttggaacagc tgaaaactag gtattattga aggcacaagca gcctcacgtc 240  
agttttttat cagctcattt gggaagtttt tttttttttt tttttttaat taattagaaa 300  
gtaggctggg cacggtggct catgcctata atcccagcac ttggggagggc cgaggatctc 360  
ctctctgggtg gatcacttga gggcaggagt taagagacca tcctggccaa catgatgaaa 420  
ccctgtctct actaaaaata caaaaagtag ctgggcgtgg tggcatactc ttacaatccc 480  
agctacttgg gaggctgagg caggagaatc acttgaacct aggaagcaga ggttgcagtg 540  
ggccaagatc acaccactat actctagcct gggcgacaga agtggggaaa aaagtaggac 600  
ccctgtccta tattcangtt tttctcacat atatgaaccc atctaaattc tacgttggta 660  
aaggtanctt aagttaatta gncatactt atttaaganc aatatggggg gaaaatggat 720  
tttttttn 728

<210> 298  
<211> 745  
<212> DNA  
<213> Homo Sapien

<220>  
<221> misc\_feature  
<222> (1)...(745)  
<223> n = A,T,C or G

<400> 298  
gnnnnnttna nnnnatacga ctactatat agggcgcaatt gggccctcta gatgcatgct 60  
cgagcgggccg ccagtgtgat ggatatctgc agaattcgcc cttagcgtgg tcgcgggcga 120  
ggtacccacg ttttgctcca cactccttga ccgcaggggc tcggacacaa acccctgtca 180  
ccaggagagt cagtcagcac tacttgggag ggctaaaggg aaatttggaa ataaaaattcc 240  
aaagtttgga gtaaaaaaat tcaagtgttg attttatatt cttcccttt ctgacacagc 300  
ctaaagcgta gggggaacat gtgtttatct gtgggagata aacaagatgg agtcccaaag 360  
actttaacaa aatatttttt taaaaatcca ctagaataga aaatacat tttagatata 420  
ctttatgctg agagtgaagta tatatgcttg tcctatttaa acttgtgaga aaaagtggta 480  
tccttgata catttagaaa tatgggggct atcttgtttc attgtggggg tggggcagaa 540  
ggagaataaaa tgcaggatga ccctgttgaa ggaatcttag catggccaac aggggacgtt 600  
tcagtcgat taccaggaaa tgcaagcctt ggggtttcta ctggtggtgg ggctgtcatg 660  
aactttaaaa tccaaagcct agacaaggaa aagtgttaga ccaattgaaa agcaatccac 720  
cctttttttt tttttttttt ggctt 745

<210> 299  
<211> 733  
<212> DNA  
<213> Homo Sapien

<220>  
<221> misc\_feature  
<222> (1)...(733)  
<223> n = A,T,C or G

<400> 299  
gnnnnnnnnn nnnnnnnccct ctgatgctg ctcgaaacggc cgccagtgtg atggatatct 60  
gcagaattcg cccttagcgt ggtcgcgccg gaggtaccca cgttttgctc cacactcctt 120  
gaccgcaggg gctcggacac aaaccctgt caccaggaga gtcagtcagc actactggg 180  
agggctaag ggaaatttgg aaataaaatt ccaaagttg gagtaaaaaa attcaagtgt 240  
tgattttata ttctttccct ttctgacaca gcctaaagcg tagggggaac atgtgtttat 300  
ctgtgggaga taaacaagat ggagtcccaa agactttaac aaaatatttt tttaaaaatc 360  
cactagaata gaaaatacat tatttagata tactttatgc tgagagttag tatatatgct 420

```

tgctcctat t aaacttg tga gaaaaagtgg tatcccttga tacatttga aatatggggg 480
ctatcttgtt tcattgtgg ggtggggcag aaggagaata aatgccagga tgacctgtt 540
gaaggaatct tancatggcc aacaggggac gtttccagtc gattaccagg aaatgcaagc 600
cttgggggtt ctactggtgg tggggtgtc atgaacnttt aaaatccaaa gcctagacca 660
aggaaaagtg ttaganccan tggaaaagcc attccagccc ttttttttn nnnnttttg 720
gcttttcacc aca 733

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&lt;210&gt; 300

&lt;211&gt; 741

&lt;212&gt; DNA

&lt;213&gt; Homo Sapien

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(741)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 300

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gnnnntgann gtatacgaac tcactatagg gcgaattggg ccctctagat gcatgctcga 60
gcgggccgcca gtgtgatgga tatctgcaga attcgccctt tcgagcggcc gcccgggcag 120
gtacgtagtc taggcatat gtgttgaga ttgagactag tagggctagg cccaccgctg 180
cttcgcaggc ggcaaagact agtatggcaa taggcacaat attggctaag agggagtggg 240
tggtgagggg tatgagagta gctataatga acagcgatag tattattcct tctaggcaca 300
gtagggagga tatgaggtgt gagcgatata ctagtattcc tagaagtgag atggtaaattg 360
ctagtataat atttatgtaa atgaggggccc ccgcgtactc aagtgggtct ctgcctctca 420
gtggtggcct tgggtcttcaa gtctcagcaa ttctgggaag ccaaggacac ctccatctcc 480
tcctccctga tctgcaactc atctaagagc agctttctca ctggaatgtc ttgtgtttaa 540
ggaacaagaa tccctgtttc cggtttgggt gcccaagtgc acctactgga tccaaccag 600
gattggagat actttgcaga acacaacatc atctggcaca tgaccagcca tgggtgttca 660
ctttcacaat ttcagcttnc ttcactgatt gcagcataat cngngtcaac accttcaaga 720
ccaaggctga tgtgggcgc t 741

```

&lt;210&gt; 301

&lt;211&gt; 724

&lt;212&gt; DNA

&lt;213&gt; Homo Sapien

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(724)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 301

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gnnnnntncn antgggccc ctngngcatn gctcgagcgg cagccagtg tgatggatat 60
ctgcagaatt cgccctttcg agcggccgcc cgggcaggta cgtagtctag gccatatgtg 120
ttggagattg agactagtag ggctaggccc accgtgctt cgcaggcggc aaagactagt 180
atggcaatag gcacaatatt ggctaagagg gagtgggtgt tgagggttat gagagtagct 240
ataatgaaca gcgatagtat tattccttct aggcacagta gggaggatat gagggtgtgag 300
cgatatacta gtattcctag aagtgagatg gtaaatgcta gtataatatt tatgtaaattg 360
agggggcccg cgtactcaag tgggtctctg cctctcagtg gtggccttgg tcttcaagtt 420
tcagcaattc tgggaagcca aggacacctc catctcctcc tccctgatct gcaactcatc 480
taagagcagc tttctcactg gaatgtcttg tgtttaagga acaagaatcc ctgtttccgg 540
tttgggtgcc caagtgcacc tactggatcc aaccaggat tggagatact ttgcagaaca 600
caacatcatc tggcacatga ccagccatgg tgtttcactt tcacaatttc agcttnttcc 660
actgattgca cataatcgtg gtcaacacct tcaagaccan ggctgatgtg gcccgntaca 720
ngga 724

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&lt;210&gt; 302

&lt;211&gt; 745

&lt;212&gt; DNA

&lt;213&gt; Homo Sapien

<220>  
<221> misc\_feature  
<222> (1)...(745)  
<223> n = A,T,C or G

<400> 302  
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agcgccgccc agtgtgatgg atatctgcag aattcgccct ttcgagcggc cgcccgggca 120  
ggtactattc cggatataca agatcactgg gagatgttga tgatggagac acagtgcacg 180  
atttcattggc ccaagagcga gaaagaggca ttactattca atcagctgct gttacatttg 240  
attggaaaagg ttatagagtc aatctaattg atacaccagg tcatgtggac ttacacctgg 300  
aggttgagcg gtgcctaaga gtgttgatg gtgcagtggc tgtatttgat gcctctgctg 360  
gtgtagaggc ccagactctc acagtatgga ggcaagctga taaacacaat atacctcgaa 420  
tctgtttttt aaacaagatg gacaaaactg gagcaagctt taagtatgca gttgaaagca 480  
tcagagagaa gttaaaggca aagcctttgc ttttacagt accaattggg gaagccaaaa 540  
ctttcaaagg agtgggtggat gtagttaatg aagaaaaaact tctttggaat tgcaattcaa 600  
atgatggaaa agactttgag agaaagcccc tcttggaat gaatgatcct gaattgctga 660  
aggaaaacac tgaagcaagg aatgccttaa ttgaacaagt tgcagaattt ggatgatgaa 720  
ttgctgactt gggtttanaa naaat 745

<210> 303  
<211> 724  
<212> DNA  
<213> Homo Sapien

<220>  
<221> misc\_feature  
<222> (1)...(724)  
<223> n = A,T,C or G

<400> 303  
gnnnttcgan tgggcccttc tagatgcattg ctgcagcggc cgccagtgtg atggatatct 60  
gcagaattcg ccctttcgag cggccgcccg ggcaggtact attccggata tacaagatca 120  
ctgggagatg ttgatgatgg agacacagtg acagatttca tggcccaaga gcgagaaaga 180  
ggcattacta ttcaatcagc tgcgtgtaca tttgattgga aagggtatag agtcaattcta 240  
attgatacac caggtcattg ggactttacc ttggagggtg agcgggtgct aagagtgttg 300  
gatgggtcag tggctgtatt tgatgcctct gctgggtgtag aggccagac tctcacagta 360  
tggaggcaag ctgataaaca caatatacct cgaatctgtt ttttaaaaa gatggacaaa 420  
actggagcaa gctttaagta tgcagttgaa agcatcagag agaagttaa ggcaagcct 480  
ttgcttttac agttaccaat tgggtgaagc aaaactttca aaggagtggg ggatgtagta 540  
atgaaagaaa aacttctttg gaattgcaat tcaaatgatg gaaaagactt tgagagaaag 600  
ccctcttgg aaatgaatga tcctgaattg ctgaaggaaa caactgaagc aaggaaatgc 660  
ttaattgaca agttgcagat ttggatgatg aatttgctga cttggtttta gaagaattan 720  
tgag 724

<210> 304  
<211> 741  
<212> DNA  
<213> Homo Sapien

<220>  
<221> misc\_feature  
<222> (1)...(741)  
<223> n = A,T,C or G

<400> 304  
gnnnnnngaa agtntacgac tcaactatagg gcgaattggg ccctctagat gcatgctcga 60  
gcggccgcca gtgtgatgga tatctgcaga attcgccctt agcgtggctg cggccgaggt 120  
actttataaa tggaattttc ttctacttgt atccatttcc cggggcttat ggaccattc 180  
atactctcca tatttagaat caaagggtcc tttctgaaga gaccttaatt ttaaggtaaa 240  
acgtgggtcca agttcctgaa tteccacttt cttttcactc ctgaatatgt atctgtgaaa 300  
tctgaagaat atgtaatccc gttgattgtg gaattgtggc acctgccttc cgataaattg 360

aggattatga	ggaaagagag	atgcaaacat	acgtccaatt	gaatgaccca	gccgtgtgtg	420
aaaattattc	agaattatct	caggtatgtg	ttctgtgggg	tccttgccct	ttctcttaat	480
ttctttacga	agacgaacac	tgctcatttt	aaaatgagca	gttggggccat	ttggcaagtg	540
actcaaaata	agtccatttg	gggttttacg	atcttcatta	ataacaatca	ggctctgtgaa	600
atctcttgcg	atgcactgtg	gaataatttt	tttcagaacc	agcctcttct	gtaataaaca	660
tgtgagtgtg	gtataactgt	gganagctgt	cacagagtcg	taccagtata	ccaaccatac	720
caactntgtt	gtagagcaaa	a				741

&lt;210&gt; 305

&lt;211&gt; 719

&lt;212&gt; DNA

&lt;213&gt; Homo Sapien

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(719)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 305

gnnnttncaa	ntgggcccct	tngatgcatg	ctcgagcggc	cgccagtgtg	atggatatct	60
gcagaattcg	cccttagcgt	ggtcgcggcc	gaggtacttt	ataaatggaa	ttttcttcta	120
cttgatccca	tttcccgggg	cttatggacc	cattcatact	ctccatattt	agaatcaaag	180
gttcctttct	gaagagacct	taattttaag	gtaaaacgtg	gtccaagttc	ctgaattccc	240
actttctttt	cactcctgaa	tatgtatctg	tgaatctga	agaatatgta	atcccgttga	300
ttgtggaatg	tggcaacctg	ccttccgata	aattgaggat	tatgaggaaa	gagagatgca	360
aacatacgtc	caattgaatg	acccagccgt	gttgtaaaat	tattcagaat	tatttcaggt	420
atgtgttctg	tggggtcctt	gcctcttctc	ttaatttctt	tacgaagacg	aacactgctc	480
attttaaaaa	gagcagttgg	gccatttggc	aagtgactca	aaataagtc	atttggggtt	540
ttacgatctt	cattaataac	aatcaggtct	gtgaaatctc	ttgcgatgca	ctgtggaata	600
attttttcag	agccagtcct	cttctgtaat	aaacatgtga	agtttggtat	actgtggana	660
gctgtcacag	agtcgacagt	ataccaacca	taccaactct	gttnagaac	anaacccat	719

&lt;210&gt; 306

&lt;211&gt; 746

&lt;212&gt; DNA

&lt;213&gt; Homo Sapien

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(746)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 306

gnnnnntgaa	agtatacgac	tcactatagg	gcgaattggg	ccctctagat	gcattgctga	60
gcggccgccca	gtgtgatgga	tatctgcaga	attcgccctt	tcgagcggcc	gcccgggcag	120
gtactccagc	ccaggcgaca	gagtgagact	cagtctcaaa	aaaaaaaaaa	atttgggcaa	180
gttatagtcc	atctcatagt	gttgtagga	ctaatttctt	catgtgctta	gaaaaatgcc	240
tggcagatag	gaaatggtca	atattattat	tattgataag	atgaccattt	tggagttag	300
aaaaccattt	tcaatgccta	tgaataaaca	actccataag	ccattccctt	aatccagta	360
gactgaattc	tcacaagtcc	tcactactca	tcatttctac	atcctgctga	tttaciaaata	420
cttcttcata	ccatgggtta	tgtctttgct	taatatcaag	gaggatggat	tcocatgtag	480
agccaaaact	aatgatacta	cgagtctcat	tttggttaag	ataagcaaa	ccagcagcat	540
gcatggccac	caatgaacct	tttgaatcaa	acacagggga	gcccgggaag	cccaaagaaa	600
aattcagtg	cataggtaat	cacatcangg	ttgtgaacta	tttcttgga	acttctttga	660
gtatacatat	ggacatactc	tggactttct	gcttttttag	actgaacacg	ttcctgacat	720
ttctttgctc	gctgaccctg	anggat				746

&lt;210&gt; 307

&lt;211&gt; 725

&lt;212&gt; DNA

&lt;213&gt; Homo Sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(725)  
 <223> n = A,T,C or G

<400> 307  
 gnnnnntnch antggccctc tagatgcatg ctcgagcggc cgccagtgtg atggatatct 60  
 gcagaattcg ccccttcgag cggccgcccg ggcagggtact ccagcccagg cgacagagtg 120  
 agactcagtc tcaaaaaaaaa aaaaaatttg ggcaagttat agtccatctc atagtgttgt 180  
 taggactaat ttcttcatgt gcttagaaaa atgcctggca gataggaaat ggtcaatatt 240  
 attattattg ataagatgac cattttggag tttagaaaac cattttcaat gcctatgaaa 300  
 taacaactcc ataagccatt cccttaaatc cagtagactg aattctcaca agtcctcatc 360  
 actcatcatt tctacatcct gctgatttac aaatacttct tcataccatg gtttatgtct 420  
 ttgcttaata tcaaggagga tggattccat ggtagagcca aactcaatga tactacgagt 480  
 ctcattttgg taagtataag caaagccagc agcatgcatg gccaccaatg aaccttttga 540  
 atcaaacaca ggggagccgg aagcccccga gaaaaattca gtgtcatagg taatcacatc 600  
 anggttgtga actattttct ggaaacttct ttgagtatac atatggacat actctggact 660  
 ttctgctttt ttagactgac acgttcctga catttctttg ctgctgacc ctgagggate 720  
 acang 725

<210> 308  
 <211> 744  
 <212> DNA  
 <213> Homo Sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(744)  
 <223> n = A,T,C or G

<400> 308  
 gnnnnntgaaa gtaatacgac tcaactatagg gcaattggg cccctctagat gcatgctcga 60  
 gcggccgcca gtgtgatgga tatctgcaga attcgccctt tcgagcggcc gcccgggcag 120  
 gtacgcgggg tgacaagtag caacatggct tgggtccctt gtgcagcatc agcttatgct 180  
 gccacaagtc agtttgcacc ctagggtacc aggagctagt atccttagat ctttctatcg 240  
 ctaacttaat tctcttcggt atttatctga ccccttaact ccatgtctaa cttgcattaa 300  
 aaaaaaaaaa attctttaca gtcaacccaa gcttaacatg gactcagggt cccagcagc 360  
 cttaatttgt tttgtaaca tctgttccct ctttttcagc tctcctagag tatttctgag 420  
 tgtgtgttc atctaactct agtattcttt taattacaaa ttgacctcac agcttgaggt 480  
 ttctgtgtc ttattctgtg gactacctgt gctcctttgc ttccctccc ctgcataat 540  
 aactatatta agaaattttt ttggccttg agttggctgg aaaaaaata taaaatttaa 600  
 aaaaaaaaaa nnnnnnnnaa aaaaaaaaaa taccctnggc gggaccacgc taangcgaa 660  
 ttccagcaca ctggcgccg ttaactaagt gatccgaact cggtaaccaac ttggcgtaat 720  
 catggcatag ctggttccct ngga 744

<210> 309  
 <211> 746  
 <212> DNA  
 <213> Homo Sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(746)  
 <223> n = A,T,C or G

<400> 309  
 gnnnnntncha ntggccctc tagatgcatg ctcgagcggc cgccagtgtg atggatatct 60  
 gcagaattcg ccccttcgag cggccgcccg ggcagggtac cggggtgaca agtagcaaca 120  
 tggcttgggt cccctgtgca gcatcagctt atgctgccac aagtcagttt gcaccctagg 180  
 taccagagag ctagtatcct tagatcttct tatcgctaac ttaattctct tcgttattta 240  
 tctgaccctc taactccatg tctaacttgc attaaaaaaa aaaaaattct ttacagtcga 300  
 cccaagctta acatggactc aggttcccca gcagccttaa tttgtttgt taacatctgt 360

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tccttctttt tcagctctcc tagagtattt ctgagtgttg tgttcattca atcttagtat      420
tcttttaatt acaaattgac ctcacagctt gaggtttcct gtgtcttatt ctgtggacta      480
cctgtgctcc tttgcttccc ctcctcctgc ataataacta tattaagaaa ttttttttgg      540
ccttgagttg gctggaaaaa aaatataaaa tttaaaaaaa aaannnnnnn nnnnaaaaaa      600
aaaagtcctt ggccgggacc acnctaangg cgaaattcca gcacaactgg gcgggccgtt      660
actaaggggg atccnaact tnggnaccn aaacttgggc gtaaaacaat gggncataaa      720
gctggnnncc ctgnggtga aaaatt

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<210> 310
<211> 751
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1)...(751)
<223> n = A,T,C or G

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```

<400> 310
gnnnntgana gtaatacgac tcactatagg gcgaattggg cctctagat gcatgctcga      60
gcggcccgcca gtgtgatgga tatctgcaga attcgccctt tcgagcggcc gcccgggcag      120
gtacttaatg cctttctcct cctggacatc agagagaaca cctgggtatt ctggcagaag      180
tttatatttc tccaaatcaa tttctggaaa aaacgtgtca ctttcaaagt cttgcatgat      240
ccttgtcaca aatagtttaa gatggcctgg gtgattcatg gcttccttat aaacagaact      300
gccaccaact atccagacca tgtctacttt atttgctaatt tctggttgtt cagtaagttt      360
taaggcatca tctagacttc tggaaaagaaa atgagctcct tgtggaggtt ccttgagttc      420
tctgctgaga actaaattaa ttctaccctt taaaggtcga ttcttctcag gaatggagaa      480
ccagggtctt ttaccataaa tcaccagatt ctgnttacct tctactgaag aagttgtggg      540
cattctctgg aaatatctga attcattcct gagcgggtgg caaggcangt ncccgttctt      600
gccgatgccc atgttctggg acacagcgac gatgcagtt agcgaaccaa ccatgacagc      660
aaccgggagc accttcgagc cccgttcgnt acaagccccc gcgtaccttn gggccngaa      720
cacgcttaag ggcgaattnc aacacactgg c

```

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<210> 311
<211> 724
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1)...(724)
<223> n = A,T,C or G

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<400> 311
gnnttncnan tgggccctct agatgcatgc tcgagcggcc gccagtgtga tggatatctg      60
cagaattcgc cctttcgagc ggccgcccgg gcagggtactt aatgcctttc tcctcctgga      120
catcagagag aacacctggg tattctggca gaagtttata tttctccaaa tcaatttctg      180
gaaaaaacgt gtcactttca aagtcttgca tgatccttgt cacaatatag ttaagatggc      240
ctgggtgatt catggcttcc ttataaacag aactgccacc aactatccag accatgtcta      300
ctttatttgc taattctggt tgttcagtaa gttttaaggc atcatctaga cttctggaaa      360
gaaaatgagc tccttgtgga ggttccttga gttctctgct gagaactaaa ttaattctac      420
cctttaaaagg tcgattcttc tcaggaatgg agaaccaggc cttcttacc ataataacca      480
gattctgttt accttctact gaagaggttg tggtcattct ctggaaatat ctgaattcat      540
tcctgagcgg tggccaaggc angtecccg tcttgccgat gcccatgttc tgggacacag      600
cgacgatgca gtttancgaa ccacccatga cagcagcggg aggaccttcg agcccgctcg      660
ttacaagccc ccgcgtacct tnggccgcga acaccttang gcgaaattca acacactggc      720
ggcc

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<210> 312
<211> 738
<212> DNA
<213> Homo Sapien

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<220>  
 <221> misc\_feature  
 <222> (1)...(738)  
 <223> n = A,T,C or G

<400> 312  
 nnnntttgaa gnctacnact cactataggg cgaattgggc cctctagatg catgctcgag 60  
 cgggccgcccag tgtgatggat atctgcagaa ttccgccctt gagcgccgc ccgggcagggt 120  
 acgcggggggg cagacatggc gacattgaca gtgggtccagc cgctcaccct ggacagagat 180  
 gttgcaagag caattgaatt actggaaaaa ctacaggaat ctggagaagt acgttcacta 240  
 attatctaca aggacaaaat cagttgtatt taaaaaactc tacttcagtg tttgttttag 300  
 tttttttttt actgaaactt gtttttgtga atactctgtg cttagaatta aatatcactt 360  
 tcttatgaac aacataactt cttcagattg tgtatatgaa aacattagca agtcttggtt 420  
 tttctatgaa gcaaacacaa ttggtgacaa aggttgtcaa tcatttcttc aaaattataa 480  
 tgcagttctta atggtcagca tattttgata tttaaatttaa agatcacctc tctgcatttg 540  
 ttttttaaatt atgctaatac accacacatt atgttggtat gttttgggtc gtctcggcc 600  
 gcgaccacgc ttanggcgaa ttccagcaca ctggcgggccc gttactagtg gatccgagct 660  
 cggtcacaagc tggcgtaatc atggtcatag ctggttcctg tgtgaaatgg tatccgttac 720  
 aattcccaca catacgan 738

<210> 313  
 <211> 720  
 <212> DNA  
 <213> Homo Sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(720)  
 <223> n = A,T,C or G

<400> 313  
 gnnttncaan tgggcccctc agatgcattc tcgagcgggc gccagtgatg tggatatctg 60  
 cagaattcgc cctttgagcg gccgcccggg caggtacgcg gggggcagac atggcgacat 120  
 tgacagtggg ccagccgctc accctggaca gagatgttgc aagagcaatt gaattactgg 180  
 aaaaactaca ggaatctgga gaagtacgtt cactaattat ctacaaggac aaaatcagtt 240  
 gtattttaca aactctactt cagtgtttgt ttttagtttt tttttactga aacttgtttt 300  
 tgtgaatact ctgtgcttag aattaaatat cactttctta tgaacaacat aacttcttca 360  
 gattgtgtat atgaaaacat tagcaagtct tgttttttct atgaagcaaa cacaattggt 420  
 gacaaagggt gtcaatcatt tcttcaaaat tataatgcag ttctaattgt cagcatattt 480  
 tgatattaaa tttaaagatc acctctctgc atttgttttt aaattatgct aatacaccac 540  
 acattatggt ggtatgtttt gntctgtacc ctggccgcca ccacgctaag ggcgaattca 600  
 ncacactggc ngncgttact agtggatccg agctcggacc aaacttggcg taatcatngn 660  
 catagctggt tctgtgtgta aaatggtatc cgttacaatt tcacacacat acgagccgga 720

<210> 314  
 <211> 740  
 <212> DNA  
 <213> Homo Sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(740)  
 <223> n = A,T,C or G

<400> 314  
 gnnntttnaa gnctacgact cactataggg cgaattgggc cctctagatg catgctcgag 60  
 cgggccgcccag tgtgatggat atctgcagaa ttccgccctta gcgtgggtcg ggccgaggta 120  
 cttttttttt tttttttttt ttagtgcttt ctactttatt aaacatcaaa gcccaaatag 180  
 atgttccctc tggaggagga cttaaggaca ctaggggagg agaaaggagc acctgggaag 240  
 agaatcacac cacagagacc aatcttcaca aaaagggtcc aatattgatt tctagggagg 300  
 agcagggcat ggtcagctca aatttggtga taacgtcagg atgaaggacc ccaagcttcc 360

```

cgacgctttg acccctggca aagatctctg cacatcgccc ggggaagaaa gcaggccctt 420
ctgatgcttt gatcacatat ccccccttgt cttcaccagg aggcacatcg agcaactgca 480
taattctgtc cagcagccca tgaatgatct caaaccagg attcttgntg taataaacag 540
cactgagatg tctgtagttt ttgacaccta catctgnatt agaattcttt attacaatgt 600
cagagatttc aaacagtttc agtgaagg gcatcttacg attgctgcta tggttcagg 660
angccaggaa gaaggtagt gcgtgccacc tgaaattcac tggtttagga tacttatgtg 720
gactggcttt gttgcaaaan

```

```

<210> 315
<211> 722
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1)...(722)
<223> n = A,T,C or G

```

```

<400> 315
gnnnnnnnnn nnnnnntnn atgctgctcg agcgccgccc agtgtgatgg atatctgcag 60
aattcgccct tagcgtgggc gcggccgagg tacttttttt ttttttttt ttttagtgct 120
ttctacttta ttaaacatca aagcccaaat agatgttccc tgtggaggag gacttaagga 180
cactagggga ggagaaaggg acacctggga agagaatcac accacagaga ccaatcttca 240
caaaaagggt ccaatattga tttctagggg ggagcagggc atggctcagct caaatttggt 300
gataacgtca ggaatgaagg cccaagctt ccgacgctt tgaccttg ccaagatctc 360
tgacatcgcc ccggggaaga aagcaggccc ttctgatgct ttgatcacat atccccctt 420
gtcttcacca ggaggcacat cgagcaactg cataattctg tccagcagcc catgaatgat 480
ctcaaaccca ggattcttgt tgtaataaac agcactgaga tgtctgtagt tttttgcacc 540
tacatctgna ttagaatctt ttattacaat gtcagagatt tcaaacagtt tcagtggaaa 600
ggggcatctt acgatttgct gctatggnc tccangaggnc angaaaaagg gtantgcntg 660
ccctgaaat tcanctggtt taggattacc tatgtggact ggctttgntg caaaaaaatn 720
cn

```

```

<210> 316
<211> 753
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1)...(753)
<223> n = A,T,C or G

```

```

<400> 316
gnnnnnttna nagtnnnnac gactcactat aggggcgaac nctctncatg catgctcnan 60
cggnccnncan ngtgatggat atntgctgan ttgcacctta cntngcntn ggccgaggcg 120
cagntcccac gtnngctcc ncactnncnn accgcagggg cncngacnncn gaccngngnn 180
ncnnngngag tncncagca ctacttggga nggctanagg gaagnttga aataaaattc 240
caaannttg agtaaaagca atncangcgn ngattatata tgnntnccct ttctgacacn 300
ncctagagcg tagggggaac atngntntat ctgtgggana tnaacaagat ggagtcccaa 360
agactttaac aaagntattt cttaanncat cncataaatn nanaatncat tattcatatn 420
tactntatgc tgnnagttag tatntatgct ngctctattt aaacttgnga gaanaagtgg 480
tntcccttga tacattnaga aatatggggg ctatcttgnt ncattgtggg ggtggggcan 540
aagganaatn aatgcangag gacctgttg aangaatctt aacatggcca acanggggac 600
ngtttacagt cgattaccag gaaangcaag ccttgggggt tctactgcn gttggggctg 660
tcatgaactt naaaatccan agnctatacc aggaaaaagt gttangaccc aattgaaang 720
ctntccaccc tttcttttnn tttgttcng cnc

```

```

<210> 317
<211> 893
<212> DNA
<213> Homo Sapien

```



<220>  
 <221> misc\_feature  
 <222> (1)...(893)  
 <223> n = A,T,C or G

<400> 317  
 gtgnnnntntn cnaaatggnc cnttttnaatg cctncctcga gcgggccgcc agtgtgatgg 60  
 atntntaatt cgncccttagc gtggctcgcg ccgnggtacn aangaaataa aantnacagt 120  
 ntcaaagaac caaantaagt cggacacaaa cccctgtcac cannagagtc ccatanacat 180  
 aannnggtg ntgtcaagna ggattnaaat taactttaac aacnttntat ataagtctac 240  
 attccccaat taataaagga nagttcacat atacanctaa ntgntaattg tggaaanaag 300  
 ggtgaaantn tgcatantta atannaaana atgctgaang cttttncata nnattnnctt 360  
 aaaaatncac ttncnatgca gcantangtn tacatgctta atntatcntg cnagtgattn 420  
 ntatgcttgt cctacatgac ntaccttgaa caactggnc tncacagatt catactgaaa 480  
 tatggggncg ntaantatnt tgggancggn annacntgaa tccctcaaagg atannnnntn 540  
 tccagntgga tgaaaccnat nattnaaang gatatnntna accatnggan cgaatgnncg 600  
 nngntctttt tcaatnntnc gngaagntnc cnnttnnata nccccngggc cncattgngg 660  
 ggnntatntn ncaatcaann ccnngagntg tntnntcntt cntcnaccgc ataacctttt 720  
 gccataggga acctnttttn aacctctttg gnttatnggg aaanaannnn nnttttaaat 780  
 tcnccaaaat ngggaaaaan aaccttntc actctaaaaa nttancnta gacctanttn 840  
 tngngncata tttgntaaac nctatggnc ctcnagnggg gnnctgggnc nnc 893

<210> 318  
 <211> 744  
 <212> DNA  
 <213> Homo Sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(744)  
 <223> n = A,T,C or G

<400> 318  
 gnnnngattg tatacgactc actatagggc gaattggggc ctctagatgc atgctcgagc 60  
 ggccgccagt gtgatggata tctgcagaat tcgccccttc gagcgccgc ccgggcaggt 120  
 acctcattag taattgtttt gttgtttcat tttttctaa tgtctccct ctaccagctc 180  
 acctgagata acagaatgaa aatggaagga cagccagatt tctcctttgc tctctgctca 240  
 ttctctctga agtctaggtt acccattttg gggaccatt ataggcaata aacacagttc 300  
 ccaaagcatt tggacagttt cttgttgtgt tttagaatgg ttttcccttt tcttagcctt 360  
 ttcttgcaaa aggtcactc agtcccttgc ttgctcagtg gactgggctc cccagggcct 420  
 aggtgcctt cttttccatg tcccacccat gagccctcca ctggacagct cagtaagcct 480  
 ggcccttcat tctgcgctgt gttcttctc tgtgaaaatc caatacctct tacctcctct 540  
 gcatgcaaag attctcaagg attgtcagac ttcaaacgta acagcagaac caccagaagg 600  
 tcctataaat gcagtagtga ctttctcaag ctgtcanggc tttaaatagg atttgggatt 660  
 taatgctatg tattttttaa ggaaagaaat aagagttgct agttttaaaa atgcatgtct 720  
 tttaccaatt canaatctgg cccc 744

<210> 319  
 <211> 720  
 <212> DNA  
 <213> Homo Sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(720)  
 <223> n = A,T,C or G

<400> 319  
 gngtttaaac cttcttanng ctgctcgagc ggccgccagt gtgatggata tctgcagaat 60  
 tcgccccttc gagcgccgc ccgggcaggt acctcattag taattgtttt gttgtttcat 120  
 tttttctaa tgtctccct ctaccagctc acctgagata acagaatgaa aatggaagga 180

cagccagatt	tctcctttgc	tctctgctca	ttctctctga	agtctaggtt	acccattttg	240
gggacccatt	ataggcaata	aacacagttc	ccaaagcatt	tggacagttt	cttggtgtgt	300
tttagaatgg	ttttcctttt	tcttagcctt	ttcctgcaaa	aggctcactc	agtcctttgc	360
ttgctcagtg	gactgggctc	cccagggcct	aggctgcctt	cttttccatg	tcccccccat	420
gagccctcca	ctggacagct	cagtaagcct	ggcccttcat	tctgcgctgt	gttcttcttc	480
tgtgaaaatc	caatacctct	tacctcctct	gcatgcaaa	attctcaagg	attgtcagac	540
ttcaaacgta	acagcagaac	caccagaagg	tcctataaat	gcagtagtga	ccttctcaag	600
ctgtcanggc	tttaaatagg	atttgggatt	taatgctatg	tattttttaa	ggaaagaaat	660
agagttgcta	gttttaaaaa	tgcattgtct	tttaaccaat	cagaatctgg	ccccnaactt	720

&lt;210&gt; 320

&lt;211&gt; 694

&lt;212&gt; DNA

&lt;213&gt; Homo Sapien

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(694)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 320

atgctcgagc	ggncggcant	gtgatggatn	tctgcagaat	tcgccctttc	gagcggccgc	60
ccgggcaggt	actattccgg	atatacaaga	tcactgggag	atggtgatga	tggagacaca	120
gtgacagatt	tcattggccc	agagcgagaa	agaggcntta	ctattcaatc	agctgctggt	180
acatttgatt	ggaaaggtta	tagagtcaat	ctaattgata	caccaggtca	tgtggacttt	240
accttggagg	ttgagcgggtg	cctaagagtg	ttggatgggtg	cantggctgt	atttgatgcc	300
tctgctgggtg	tagaggcccc	gactntcaca	gtatggaggc	aagctgataa	acacaatata	360
cctcgaatct	gtttttttaa	caagatggac	aaaactggag	caagctttta	gtatgcagtt	420
gaaagcatca	gagagaagtt	aaaggcaaa	cctttgcttt	tacagttacc	aattgggtgaa	480
gccaaaactt	tcaaaggagt	ggtggatgta	gtaatgaang	aaaaacttct	ttgggaattg	540
caattcaana	tgatggaaaa	gactttgaga	gaaagccctt	cttggaatg	aatgatcctg	600
aattgctgaa	ggaaacaact	gaacaaggaa	tgcccttaatt	gaacaaagt	gcagatttgg	660
atgatgaatt	tgctgacttg	gttttaagaa	gaat			694

&lt;210&gt; 321

&lt;211&gt; 781

&lt;212&gt; DNA

&lt;213&gt; Homo Sapien

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(781)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 321

gngttnacna	ntgggccttc	tngatgctgc	tcgagcggcc	gncagtggtga	tggatntctg	60
cagaatncgc	cctncgggcg	gccgnccggg	caggtactat	nccgatata	caagatcact	120
gggagatggt	gatgatggag	acncagnagc	agatttcatg	gccaagagc	gagaaagagg	180
cnttactatn	caatcagctg	ctgttacatt	cgattggaaa	ggttatngag	tcaatcta	240
tgatncacca	ngtnatgtgg	actttacctt	ggaggttgag	cggtgcctaa	nagtgttggg	300
tggtgcannng	gctgtatttg	atgcctctgc	tggtgtagag	gcccagactc	tcacagtagt	360
gatgcaagct	gataaacaca	atatacctng	aatctgtggt	ttaaacaaga	tggacaaaac	420
tgaggaagc	tttaaagtnt	gcagttgaaa	gcatcagaga	gangttnaag	gcanagcctt	480
tgcttttaca	gtttcccaat	tggttgaaac	ccaaaacttt	tcaaaggagg	ttggttggat	540
tgtaagtaat	gaaaggaaaa	acttcttttg	gaaantggca	atttcaanat	gattggaaaa	600
ngacttttgg	gagaaaaagc	ccttctttgg	aaaatngaaa	tgatncctga	aatttgcngt	660
aaanngaaaa	cnaacntgna	atccaangga	attncctttt	aanttggaac	aaaggnttgc	720
naanttttng	attgaatnga	atttgnncng	cnttngggtt	ttangaaaga	aattaaagng	780
g						781

&lt;210&gt; 322

&lt;211&gt; 744

<212> DNA  
<213> Homo Sapien

<220>  
<221> misc\_feature  
<222> (1)...(744)  
<223> n = A,T,C or G

```

<400> 322
gnnntganag tatcgactca ctatagggcg aattggggccc tctagatgca tgctcgagcg      60
gccccccaggt gtgatggata tctgcagaat tcgccctttc gagcgggccgc ccggggcaggt      120
acgcgggggac tgggtttttc tccttttgta gcctttttcct ttagttctcct cttccccggtg      180
gttggtaaaa agaggtgaat tgacagccta tgttgaagac actgtgcttt tctcaagaag      240
gacatccaaa cagcaagtct acttctttct cttaaagcat gtgctcatta tcaccaagaa      300
gaagagtgaa gaaagttaca acgtcaatga ttattcctta agagatcagc tattggtgga      360
atcttgtgac aatgaagagc ttaattcttc tccaggggaag aacagctcca caatgctcta      420
ttcaagacag agctctgcca gtcacctctt tactctgaca gtccttagta accacgcgaa      480
tgagaaagtg gagatgctac taggagctga gacgcagagc gagcgagccc gctggataac      540
tgccctggga cacagcagcg ggaagccgcc tgcagaccga acctnactga cccaggtgga      600
aatcgttagg tcatttactg ctaagcagcc agatgaactc ttctctgcagt ggctgacgtc      660
gtcctcatct atcaacgtgt cagcgatggc tggatgaag gggaaacgact tcgagatgga      720
gaaagaagnt gggttcctat ggaa                                         744

```

<210> 323  
<211> 723  
<212> DNA  
<213> Homo Sapien

<220>  
<221> misc\_feature  
<222> (1)...(723)  
<223> n = A,T,C or G

```

<400> 323
gtgtttcaan cggtcctcta gatgctgctc gagcgggccgc cagtgtgatg gatattctgca      60
gaattcgccc ttctgagcgg ccgcccgggc aggtacgcgg ggactgggtt tttctccttt      120
tgtagccttt tccttttagt tcctcttccc ggtggttggt aaaaagaggt gaattgacag      180
cctatgttga agacactgtg cttttctcaa gaaggacatc caaacagcaa gtctacttct      240
ttctctttaa cgaatgtgctc attatcacca agaagaagag tgaagaaagt tacaacgtca      300
atgattattc cttaagagat cagctattgg tggaaatctg tgacaatgaa gagcttaatt      360
cttctccagg gaagaacagc tccacaatgc tctattcaag acagagctct gccagtcacc      420
tctttactct gacagtcctt agtaaccacg cgaatgagaa agtggagatg ctactaggag      480
ctgagacgca gagcgagcga gcccgcctgga taactgccct gggacacagc agcgggaagc      540
cgctgcagac cgaacctcac tgacctcaggt ggaaatcgtt aggtcattta ctgctaagca      600
gccagatgaa ctcttctgc angtggctga cgtcgtcctc atctatcaac gtgtcancga      660
tgggtggtatg aaggggaacg actacnagat ggagaaagaa gctgggtttcc tatggaatgt      720
gcc                                         723

```

<210> 324  
<211> 746  
<212> DNA  
<213> Homo Sapien

<220>  
<221> misc\_feature  
<222> (1)...(746)  
<223> n = A,T,C or G

```

<400> 324
gggnntgaag nncgactca ctatagggcg aattggggccc tctagatgca tgctcgagcg      60
gccccccaggt gtgatggata tctgcagaat tcgcccttag cgtggtcgcg gccgaggtac      120
cttgagatct gagcaactgt gttaatgaag taatagcaat ggtccacagt gaaagatgtg      180

```

ttgggggtttg	caaaacaagc	attccgtcac	ctctttaata	atgtcacaga	cttttttaaa	240
agagaggcta	tcaagttgta	atataatctg	tcattgttta	tttaggaagg	aaggtaaatt	300
tgtgcttgca	cggggatcat	tttgtattat	ttntgcta	atccagttga	agctaaaaag	360
caactatttg	aatcctgtga	attaatttat	aagaatgta	aacagctntg	gaaatacatg	420
catcttatga	atcatagcct	tatttagcaa	gatcaatgtt	aaagtgttga	tatatggcaa	480
gtatttaaca	cattcacagt	gntagtttga	tttcaactgt	gaattgtctt	acagtttttt	540
caaacctagt	gtntctatgg	acacctgctc	tgaattgtac	ccctcagtca	ccaccaaaagc	600
attnncaccc	ctttcaaccc	ccaatcagac	cantgctttc	agtggtattg	gaggacttnt	660
atcacagctt	catnangtgg	tcttggcaca	ggcagntcga	ctngcttngg	aactggtgct	720
tttggaactcc	cttcaanngn	aatant				746

&lt;210&gt; 325

&lt;211&gt; 742

&lt;212&gt; DNA

&lt;213&gt; Homo Sapien

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(742)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 325

gtgtttcann	cggccctcta	gatgcacgt	cgagcggccc	gccagtgtga	tggatatctg	60
cagaattcgc	ccttagcgtg	gtcgcggccg	aggtaccttg	agatctgagc	aactgtgtta	120
atgaagtaat	agcaatggtc	cacagtgaag	gatgtgttgg	ggtttgcaaa	acatgcattc	180
cgtcacctct	ttaataatgt	cacagacttt	tttaanagag	aggctatcaa	gttgtnatat	240
aatctgtcat	gtattattta	agaaggaagg	taaatntgtg	cttgacgggg	gatcattttg	300
nattattnct	gctnataccc	agctgaagct	nanaancnac	tnnttgnatc	ctgtgantta	360
atncatanna	atgttanaca	gctntggaaa	tccatgcctc	ttatgaatca	tngccttatt	420
tancangatc	aatgttaaag	ntgttgatat	nnggcaagtn	tnaaacacat	tnacantgct	480
agtntgattt	caactgngaa	ttgncttacc	gtnttttnaa	acctananga	atntatngac	540
acctnctctn	aatngnnncc	ctcaancacc	acnaaanctt	ttncnnccct	tncaaccccc	600
nacngaccn	cngcattcag	tnngaancng	aangactttc	atcacaaactg	gncaanatnt	660
nggacttttg	cgccatgcnn	accctcttgg	nctttngaac	nnggttgccct	tttnggactt	720
tnncctgng	ngataaccac	cn				742

&lt;210&gt; 326

&lt;211&gt; 747

&lt;212&gt; DNA

&lt;213&gt; Homo Sapien

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(747)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 326

atgnttttaag	tatacgactc	actatagggc	gaattggggc	ctctagatgc	atgctcgagc	60
ggccgccagt	gtgatggata	tctgcagaat	tcgccctttc	gagcggccgc	ccgggcagggt	120
actgtatcat	tggcagatgt	gacgtcaccc	acaaccagag	tgaagtggcg	gacaaaactg	180
aggattacct	gtggctgaag	ttgaaccaag	tgtgttttga	cgacgatggc	accagctccc	240
cacaagacag	gctcactctc	tcacagtcc	agaagcagtt	gttggaagac	tatggcgagt	300
cccactttac	ggtgaaccag	caacccttcc	tctacttcca	agtctgttc	ctgacagcgc	360
agtttgaagc	agcagttgcc	tttcttttcc	gcatggagcg	gctgcgctgc	catgctgtcc	420
atgtagcact	ggtgctgttt	gagctgaagc	tgtttttaa	gtcctctgga	cagagtgttc	480
aactctcag	ccacgaacct	ggtgacctt	cttgcttgcg	gcggctgaac	ttcgtgcggc	540
tcctcatgct	gtacctcggc	cgngaccacg	ctaagggcga	attccagcac	actggcggnc	600
gttactagt	gatccgagct	cggtaccaa	cttggcgtaa	tcatggncat	agctgggtcc	660
tgtgtgaaat	ggtatccgtt	acaatttcac	acaacatacg	agccgggaag	catnaagtgt	720
naaacctggg	gtgcctnatg	agtgacn				747

&lt;210&gt; 327

<211> 724  
<212> DNA  
<213> Homo Sapien  
  
<220>  
<221> misc\_feature  
<222> (1)...(724)  
<223> n = A,T,C or G

<400> 327  
gtnatgaaac cnttctntng ngcatgctcg agcggccgcc agtgtgatgg atatctgcag 60  
aattcgccct ttcgagcggc cgcccgggca ggtactgtat cattggcaga tgtgacgtca 120  
ccgacaacca gagtgaagtg gcggacaaaa ctgaggatta cctgtggctg aagttgaacc 180  
aagtgtgttt tgacgacgat ggcaccagct cccacaaga caggctcact ctctcacagt 240  
tccagaagca gttgttgga gactatggcg agtcccactt tacgggtgaa cagcaaccct 300  
tcctctactt ccaagtcttg ttcttgacag cgcagtttga agcagcagtt gcctttcttt 360  
tccgcatgga gcggctgcgc tgccatgctg tccatgtagc actgggtgctg tttgagctga 420  
agctgctttt aaagtctctt ggacagagtg ctgagctcct cagccacgag cctggtgacc 480  
ctccttgctt gcggcggctg aacttcgtgc ggctcctcat gctgtacctc ggccgcgacc 540  
acgctaaggg cgaattccag cacactggcg gccgttacta gtggatccga gctcgggtacc 600  
aagcttgccg taatcatggt catagctgtt tcctgtgtga aattgtatcc gctcacaatt 660  
ncacacaaca tacgagccgg aagcataaag tgtaaaacct ggggtgccta atgagtgaac 720  
taan 724

<210> 328  
<211> 747  
<212> DNA  
<213> Homo Sapien  
  
<220>  
<221> misc\_feature  
<222> (1)...(747)  
<223> n = A,T,C or G

<400> 328  
tgnntgttag atagactca ctataggcg aattgggccc tctagatgca tgctcgagcg 60  
gcccgccagt gtgatggata tctgcagaat tcgcccttag cgtggctcgc gccgaggtag 120  
tttttttttt ttttttaaag acagagtctt gctctgtcac ccaggctgga gtgcagtggc 180  
acgatctcgg ctactgcaa gctctgcctc ccgggttcac gccattctcc tgcctcagcc 240  
tcccagtag ctgggactac aggtgcccgc caccatgccc ggctgatttc tttttgtatt 300  
tttagtagag acggagtctt accgtgttag ccaggatggt ctcgatctcc tgacctcgtg 360  
atccgccgcg cttggcctcc aaagtgcctg gattacaggt gtgagctacc gcgcccgccc 420  
tattatcttg tactttctaa ctgagccctc tattttcttt attttaataa tatttctccc 480  
cacttgagaa tcacttgta gttcttggtg ggaattcagt tgggcaatga taacttttat 540  
gggcaaaaac attctattat agtgaacaaa tgaaaataac agcgattttt caatattttc 600  
ttattcctta aattccactc ttttaacact atgcttaacc acttaatgtg atgaaatatt 660  
cctaaaagt aaatgactat taaagcatat attggtgcat gnataatata aagtaccgca 720  
tactctaaat aaaaatccac tggtcen 747

<210> 329  
<211> 725  
<212> DNA  
<213> Homo Sapien  
  
<220>  
<221> misc\_feature  
<222> (1)...(725)  
<223> n = A,T,C or G

<400> 329  
gcgtttcaan tgggccctct ngngcatgct cgagcggccg ccagtgtgat ggatatctgc 60  
agaattcgcc cttagcgtgg tcgcgccgca ggtacttttt tttttttttt taaagacaga 120

gtcttgcctct	gtcaccacagg	ctggagtgcg	gtggcaccgat	ctcggctcac	tgcaagctct	180
gcctcccggg	ttcacgccat	tctcctgcct	cagcctcccg	agtagctggg	actacaggtg	240
cccgccacca	tgcccggctg	atctcttttt	gtatttttag	tagagacgga	gtttcacctg	300
gtaggccagg	atggtctcga	tctcctgacc	tctgtatccg	ccgcctctgg	cctccaaagt	360
gctgggatta	caggtgtgag	ctaccgcgcc	cggcctatta	tcttgtactt	tctaactgag	420
ccctctattt	tctttatttt	aataatattt	ctcccccactt	gagaatcact	tgtagttctt	480
tggtaggaa	tcagttgggc	aatgataact	tttatgggca	aaaacattct	attatagtga	540
acaaatgaaa	ataacagcgt	atcttcaata	ttttcttatt	ccttaaattc	cactctttta	600
acactatgct	taaccactta	atgtgatgaa	atattcctaa	aagttaaatg	actattaaag	660
catatatggg	tgcatgtata	tattaagtag	cccgatctct	naataaaaaat	ccactggtac	720
agata						725

&lt;210&gt; 330

&lt;211&gt; 741

&lt;212&gt; DNA

&lt;213&gt; Homo Sapien

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(741)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 330

gnnntganag	atacgactca	ctatagggcg	aattggggccc	tctagatgca	tgctcgagcg	60
gcccggcagt	gtgatggata	tctgcagaat	tcgcccttag	cgtgggtcgcg	gccgaggtac	120
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ttcttcacaa	ggtggcagga	aggagaagag	ccgagagaag	gcggaagaat	cccttataaa	300
accatcagat	ctcgtgagaa	ctcacttgct	atcaggagaa	cagcatgggg	gaaccgcccc	360
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attccagatg	agatttgggt	ggggacacaa	agccaaacca	tatcaactgt	gactaccttg	480
ggtaagggcc	atccaggcag	aggcaggggg	aacattcttg	gcaaaggcct	tggggcaggg	540
gcctgggtatg	ttcagatagc	ancaagtagg	ccagantggc	cggaggggag	taagtgtggg	600
gaggccagtg	ganagatgag	ggtagggaag	ggatggatca	gatcatgcag	ggccccgggg	660
gccacaggaa	ngacctnagc	atttactgca	agtaangtgg	gaaccatcga	atgtctaagc	720
naggaggaat	ccctgtgact	c				741

&lt;210&gt; 331

&lt;211&gt; 727

&lt;212&gt; DNA

&lt;213&gt; Homo Sapien

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(727)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 331

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cagaattcgc	ccttagcgtg	gtcgcggccg	aggtaactttt	tttttttttt	tttttttttt	120
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caattataac	agaaggcaaa	ggggaagcca	gataccttct	tcacaagggtg	gcaggaagga	240
gaagagccga	gagaaggcgg	aagaatccct	tataaaacca	tcagatctcg	tgagaactca	300
cttgctatca	ggagaacagc	atgggggaac	cgccccagg	attcaatgac	ctccacctgg	360
tctctccctt	gacacgtgag	gattatgggg	attacaattc	cagatgagat	ttgggtgggg	420
acacaaagcc	aaaccatatc	aactgtgact	accttgggta	agggccatcc	aggcagaggc	480
agggggaaca	ttctgggcaa	aggccttggg	gcaggggcct	ggtatgttca	gatagcagca	540
agtaggccag	antggccgga	ggggagtaag	tgtggggagg	ccagtggaaa	aatganggta	600
gggaaaggga	tggatcagat	catgcagggc	ccggggggcc	acangaagga	cctnacattt	660
actgcaagta	angtgggagc	catggaatgt	tctaagcana	ngangaatcc	ctgngactca	720
ngtgtn						727

<210> 332  
 <211> 734  
 <212> DNA  
 <213> Homo Sapien

<220>  
 <221> misc\_feature  
 <222> (1)... (734)  
 <223> n = A,T,C or G

<400> 332  
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 accctttctcg cttttgccat tagccaagga tagaagctgc agtggtatta attttgatat 180  
 aatcttttcaa accagcttca tgtggcttcc cttttctttg ttcaagatga gggccaggag 240  
 gggaaacatc acacctgccc taaacctgt tcttgagggt cagcatttga tctgttgcaa 300  
 gccctctttt ctgtccctc ttcctaccct gcctcccatg actttgctcc tcacactttt 360  
 ggaaccatgc cttccggggg ggcccatctc ttctggccgt ccttgtctct gggccacttg 420  
 gagtgtgtga taaatcagtc aagctgttga agtctcagga gtctctggtg gcctgcagaa 480  
 gtaagcctca tcatcagagc ctttctctca aactggagtc ccaaagtca tcagggtttg 540  
 ntttttttcc aaccactaag aacctctctg cttttaactc tagaatttgg gcttggaacca 600  
 gatctaacat cttgaatact ctgccctcta gaccttcacc ttaatggaan gtggatccca 660  
 nganggtgta atggacatca agccactcgc ggcagcatgg agctatacta agcatcctta 720  
 nggtctgcct ctcn 734

<210> 333  
 <211> 710  
 <212> DNA  
 <213> Homo Sapien

<220>  
 <221> misc\_feature  
 <222> (1)... (710)  
 <223> n = A,T,C or G

<400> 333  
 ntgggcccctc tngngctgct cgagcggccg ccagtggtgat ggatatctgc agaattcgcc 60  
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 gctgcagtggt tattaatttt gatataatct ttcaaaccag ctctcatgtgg cttccctttt 180  
 ctttgttcaa gatgagggcc aggaggggaa acatcacacc tgccctaaac cctgttctctg 240  
 gagggtcagca tttgatctgt tgcaagcccc tctttctgtc cctcttctc accctgcctc 300  
 ccattgacttt gctcctcaca cttttggaac catgccttcc gggggggccc atctcttctg 360  
 gccgtccttg tctctgggcc acttgagtg tgtgataaat cagtcaagct gttgaagtct 420  
 caggagctctc tggtagcctg cagaagtaag cctcatcatc agagccttcc ctcaaaactg 480  
 gagtcccaaa tgtcatcagg ttttgtttt ttttcagcca ctaagaacct ctctgctttt 540  
 aactctagaa tttgggcttg gaccagatct aacatcttga atactctgcc ctctagagcc 600  
 ttcagcctta atggaagggt ggatccaang anggtgtaat ggaacatcaa gccactcgcg 660  
 gcagcatgga gctatactaa gcactcttta nggtctgcct cttcagcatt 710

<210> 334  
 <211> 2051  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)... (2051)  
 <223> n = A,T,C or G

<400> 334  
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tggtcactat	tcacaatagc	aacatcatgg	gctgaaccta	tgtgtccatc	aacagatgat	180
tagattttta	aatgtgcata	tataccatgg	aatacatagc	caaccatcaa	aaataatgaa	240
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cagagacaga	aagtcagaaa	ctgcatgttc	tcatttggaa	actgaaaatc	acacacacat	360
aaatctaata	aagacatggg	tactttattt	tcaaaacact	catatgttgc	aaaaaacaca	420
tagaaaaata	aagtttgggtg	ggggtgctga	ctaaacttca	agtcacagac	ttttatgtga	480
cagattggag	cagggtttgt	tatgcatgta	gagaacccaa	actaatttat	taaacaggat	540
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gatagactag	ctcttcagat	gtttttctac	cagttcagag	atgggttaat	gactagtctc	660
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ttttttttgc	aacacaatat	acatcacagt	gaaatgtgta	atccttgcaa	attgcaagtt	780
gaaagaatta	aattcagagg	aggggagaga	aagagtactc	agtagggact	gagcactaaa	840
tgctttattt	aaaagaaatg	taaagagcag	aaagcaattc	aggctaccct	gccttttgtg	900
ctggctagta	ctccggtcgg	tgtcagcagc	acgtggcatt	gaacattgca	atgtggagcc	960
caaaccacag	aaaatggggt	gaaattggcc	aactttctat	taacttatgt	tggcaatttt	1020
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tgttgtttca	tttttttcta	atgtctcccc	tctaccagct	cacctgagat	aacagaatga	1200
aaatgggaag	acagccagat	ttctcctttg	ctctctgctc	attctctctg	aagtctaggt	1260
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cggaaancca	taaantntn	aancccnngn	ggccnaaggg	agnnnaaac	ccnnaataaa	2040
tggnntggnc	c					2051

&lt;210&gt; 335

&lt;211&gt; 1312

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;400&gt; 335

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ctacttaact	gaaaattatt	ttcaatgaat	gggatgttta	gaactctgtg	agggttttta	180
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caagaaaata	aaactcacca	gtgtggctgg	gcagaatata	tatatcttct	caaatttgtt	300
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aaataatcat	ttattttatt	tttgtaaca	tctgtctttc	ctgtggggaa	acttactata	720
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gttttggaga	aatatgttaa	cattttcaat	tatctcactt	tctagaatca	aaatagtctg	1140
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<210> 336  
 <211> 787  
 <212> DNA  
 <213> Homo sapien

<400> 336  
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 aaaattgcaa ataaatatag atagataata tcatgatgag aaggtcacgg gaagcctgga 120  
 gatttcaggg tgctctttca taattggagc gagaatcatg taacagttaa gaaactaaac 180  
 tcttgagcct tcatagtctt tgctttctcc ccattttattt atctgatatt atataccctc 240  
 ttttaattata gactggactg aaatatttta tttttgtttt attataaaaa atcctactcg 300  
 tctttaacat gttctcttaa agagtgtttc atatataaat actttccccc caaaatataa 360  
 agaggctaac cactatagta ttgaaagatt gaaagaaaaga cctaggggtgt ctaaaaccaa 420  
 atttaaggc tcagtcttaa gaggagttaa aatgcttcct ttgtaagcac tttaaacttc 480  
 atctttaaac attgatgaga atattataaa gaattcacaa cagcagttac atggaggtag 540  
 aaaagagtgt tgagaagaag gagggtgatt gcaacaaata caaagaaact attgagatgt 600  
 aacaaagacg tgcaattacc tatgaatggg taaaccagtt atatatatttg ctttcacagc 660  
 atgagattat ttttaatttg aattggttta ccattgtaatg acacttccat tttaaagatt 720  
 ttatgcattg aaccttaata ctctcaagggt ttccagactt cagagaggta gtcatactt 780  
 tcattgt 787

<210> 337  
 <211> 772  
 <212> DNA  
 <213> Homo sapien

<400> 337  
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 ctagtTTTTaa aacataagat gtgataataa tctaaacaga ccaaaggaaa taaatgaata 120  
 tgattaaaaa aagacagaga ataagccctg tctgatggaa agcataacaa agcaggtaga 180  
 acaactgtca ggaatgcttg atccaataaa gctagggttg tgatccacaa cacttcagca 240  
 ttttaatttg atttttgatg tttgcttttt gcaatgggtga ttctcagttg cctccctcct 300  
 gtgtctttac aagctgaaat caagtgaagc tacttctgac tttttctaaa acttaaacc 360  
 aacatgaagg tctgcgtatt ctttcacatg tgcacgtatg tggcactttt ccatgatgca 420  
 acagcagcgg gtctctagct aagctacagc agcagctcta agaggcagag gaccctgaaa 480  
 tgaggctgaa agaaagaata gtccataact gacatcaggc aggctgctgt tgtaagcaca 540  
 gaaaggaggc tcacggcggc atggactcag gccaggtcac actattgttg gagaacacgg 600  
 agcacacgtg tcagctggaa aggggcccggc tcaggagaca aaataggcac gagaggaaac 660  
 cgaaaaattg acatatgtga ctatccttgt agaaatgtat aaagggtttg attattttgc 720  
 ttatcgagtt ataataaagt tattctaaaa atgtttatct aaagtattat gt 772

<210> 338  
 <211> 1383  
 <212> DNA  
 <213> Homo sapien

<400> 338  
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 aacatacaaa acccacccca ttctataga gcctagtact acactacccc ctcccaactt 120  
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 cactttaatt tggagagttt ccagagcaaa gggcacagat cccaggcata acaacgcttt 360  
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 agaggcctaaa accgttgcca aaaatagtag ttgcctact tcagttctatt ttcaacagag 840

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agt						1383

&lt;210&gt; 339

&lt;211&gt; 1815

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;400&gt; 339

acttttttgtt	cattttgatt	tttggataat	gcaaaaattat	agattttttta	aaaatttatat	60
tcaaagaata	ctgagtgcaa	gacaatcttt	ctaggttaaaa	aaatatctta	taaacctgaa	120
ttgtcaatta	ttattgtatc	ccagatgtat	ggaagttaaat	ggatagtcag	taacatacag	180
gactagcaga	aggtttgttg	ttataggtaa	tctggagaga	agccaggtaa	gtggaatttg	240
ggatttgctg	ctgttgccag	aaagcagcac	agagacatgg	taagtggcaa	gaccagggtta	300
actaaaacaa	ccatgtctta	gtccttttat	gctgctgtaa	cagaatatca	cagactgagt	360
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tttttgatttc	cttatttgca	ccatttttaa	aaaacctatt	tatttaacga	ctgtttattc	780
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cacatgagtc	catggcatct	tgcataatag	tgccagtaaa	gtttttcctg	accaattgat	960
aatatagata	tacattggta	gcagttttgt	gtatattttt	atagttagat	gttgttggca	1020
catgtgactt	gtgtctcaga	aaaatacaga	aaatgggttaa	agacaggagg	atactaccct	1080
gattttctctg	ttcattaaag	aacagctatt	tggggggaaa	acctgatata	attatttgag	1140
catgtggctt	aaagattaga	cctataaaaca	attcaggagc	atcttcacgc	aaactgtgtg	1200
agaattcaca	gaaataaacc	tggtaggttt	gtgctatggt	attcacatgg	gctgttaact	1260
cttttccatt	cctaggtcct	ttatttcctt	gcctcctca	atctcatgct	cttgagattt	1320
ttaactatat	tacttcttta	caaagtcac	ttcaaaatga	ttcatttttg	atagcaaact	1380
atccctcaac	ttacctacac	actctcactc	atactcacat	tctctcttat	gtctttctgt	1440
gtggaaggga	acatttagaa	tgtctattct	ttgtgatgca	aaaatgacaa	cacactgatg	1500
atgaaggggg	gtatttttag	gagaaaaagt	agcttttctt	ttcatcatac	tgccactttt	1560
gagattctat	agaaagaata	ggtattgaac	acagaccact	tggctctctg	aggtagctt	1620
tggacacact	tagaagtcag	ctagaatatg	ccttctgttt	aagggtggag	tctgcattta	1680
aaaagagaga	actggattaa	ttggcaggta	agttgagatt	ccatgattca	ggaaaccttt	1740
aagactttta	agtgcaggct	ctttgtaggt	tggaaatgaaa	cttaatatat	atatatgttc	1800
tttgattctt	tctgt					1815





INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(51) International Patent Classification <sup>6</sup> : <b>C12N 15/12, C07K 14/47, C12Q 1/68, G01N 33/68, C07K 16/18, A61K 31/70</b>		<b>A2</b>	(11) International Publication Number: <b>WO 99/64594</b>						
			(43) International Publication Date: 16 December 1999 (16.12.99)						
<p>(21) International Application Number: <b>PCT/US99/13181</b></p> <p>(22) International Filing Date: <b>10 June 1999 (10.06.99)</b></p> <p>(30) Priority Data:</p> <table border="0"> <tr> <td><b>60/088,877</b></td> <td><b>11 June 1998 (11.06.98)</b></td> <td><b>US</b></td> </tr> <tr> <td><b>09/328,475</b></td> <td><b>9 June 1999 (09.06.99)</b></td> <td><b>US</b></td> </tr> </table> <p>(71) Applicant: <b>CHIRON CORPORATION [US/US]; 4560 Horton Street, Emeryville, CA 94608-2916 (US).</b></p> <p>(72) Inventors: <b>ASTEL, Jon, H.; 4560 Horton Street, Emeryville, CA 94608-2916 (US). CARROLL, Eddie, III; 4560 Horton Street, Emeryville, CA 94608-2916 (US). ENDEGE, Wilson, O.; 4560 Horton Street, Emeryville, CA 94608-2916 (US). FORD, Donna, M.; 4560 Horton Street, Emeryville, CA 94608-2916 (US). MONAHAN, John, E.; 4560 Horton Street, Emeryville, CA 94608-2916 (US). SCHLEGEL, Robert; 4560 Horton Street, Emeryville, CA 94608-2916 (US). STEINMANN, Kathleen, E.; 4560 Horton Street, Emeryville, CA 94608-2916 (US). ZHANG, Jimmy; 4560 Horton Street, Emeryville, CA 94608-2916 (US).</b></p> <p>(74) Agents: <b>BAYNHAM, Robert, J.; Chiron Corporation, Intellectual Property-R338, P.O. Box 8097, Emeryville, CA 94662-8097 (US) et al.</b></p>		<b>60/088,877</b>	<b>11 June 1998 (11.06.98)</b>	<b>US</b>	<b>09/328,475</b>	<b>9 June 1999 (09.06.99)</b>	<b>US</b>	<p>(81) Designated States: <b>AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, UZ, VN, YU, ZA, ZW, ARIPO patent (GH, GM, KE, LS, MW, SD, SL, SZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG).</b></p> <p><b>Published</b> <i>Without international search report and to be republished upon receipt of that report.</i></p>	
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INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(51) International Patent Classification <sup>6</sup> : C12N 15/12, C07K 14/47, C12Q 1/68, G01N 33/68, C07K 16/18, A61K 31/70		A3	(11) International Publication Number: <b>WO 99/64594</b> (43) International Publication Date: 16 December 1999 (16.12.99)
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## INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(51) International Patent Classification <sup>6</sup> : <b>C12N 15/12, C07K 14/47, C12Q 1/68, G01N 33/68, C07K 16/18, A61K 31/70</b>		<b>A3</b>	(11) International Publication Number: <b>WO 99/64594</b>
			(43) International Publication Date: 16 December 1999 (16.12.99)
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## INTERNATIONAL SEARCH REPORT

Intern. Application No  
PCT/US 99/13181

## A. CLASSIFICATION OF SUBJECT MATTER

IPC 6 C12N15/12 C07K14/47 C12Q1/68 G01N33/68 C07K16/18  
A61K31/70

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 6 C12N C07K

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	HILLIER, L. ET AL.: "WashU-NCI human EST project: zu71f08.s1 Soares testis NHT Homo sapiens cDNA clone 743463" EMBL DATABASE ENTRY AA609384, 1 October 1997 (1997-10-01), XP002128750 the whole document ---	1,2,7-9
A	HILLIER, L. ET AL.: "WashU-NCI human EST project 1997: zv83c03.s1 Soares total fetus Nb2HF8 9w Homo sapiens cDNA clone 760228" EMBL DATABASE ENTRY HS1226101; ACCESSION NUMBER AA425141 (VERSION 2), 28 October 1997 (1997-10-28), XP002128751 the whole document --- -/-	1,2,7-9

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

## \* Special categories of cited documents:

\*A\* document defining the general state of the art which is not considered to be of particular relevance

\*E\* earlier document but published on or after the international filing date

\*L\* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

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\*T\* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

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\*Y\* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.

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Date of the actual completion of the international search

26 January 2000

Date of mailing of the international search report

02.05.2000

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2  
NL - 2280 HV Rijswijk  
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,  
Fax: (+31-70) 340-3016

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ANDRES S.M.

# INTERNATIONAL SEARCH REPORT

Internal J Application No  
PCT/US 99/13181

## C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	HILLIER, L. ET AL.: "WashU-NCI human EST project: za83e08.r1 Soares fetal lung NbHL19W Homo sapiens cDNA clone 299174" EMBL DATABASE ENTRY HS287326; ACCESSION NUMBER W05287, 8 May 1996 (1996-05-08), XP002128752 the whole document ---	1,2,7-9
A	WO 98 04689 A (UROCOR INC) 5 February 1998 (1998-02-05) page 4, line 8 -page 5 page 13 -page 52 page 66 -page 85 page 112 -page 122 ---	1-11
A	HELLER ET AL: "DISCOVERY AND ANALYSIS OF INFLAMMATORY DISEASE-RELATED GENES USING cDNA MICROARRAYS" PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF USA, vol. 94, March 1997 (1997-03), pages 2150-2155, XP002100125 ISSN: 0027-8424 -----	

# INTERNATIONAL SEARCH REPORT

International application No.

PCT/US 99/ 13181

## Box I Observations where certain claims were found unsearchable (Continuation of Item 1 of first sheet)

This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☒ Claims Nos.:  
because they relate to subject matter not required to be searched by this Authority, namely:  
  
see FURTHER INFORMATION sheet PCT/ISA/210
2. ☐ Claims Nos.:  
because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
3. ☐ Claims Nos.:  
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

## Box II Observations where unity of invention is lacking (Continuation of Item 2 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

see additional sheet

1. ☐ As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2. ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4. ☒ No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

1-11 (all partially)

Remark on Protest

- ☐ The additional search fees were accompanied by the applicant's protest.
- ☐ No protest accompanied the payment of additional search fees.

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

Continuation of Box 3.

Although claims 8 to 11 are directed to a method of treatment of the human/animal body, the search has been carried out and based on the alleged effects of the compound/composition.

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Further defect(s) under Article 17(2)(a):

Continuation of Box 3.

Claims Nos.: 3 and 6

Present claims 3 and 6 relate to a nucleic acid sequences defined only by the (arbitrary) name of the clone they originate from. The use of these names in the present context is considered to lead to a lack of clarity within the meaning of Article 6 PCT. It is impossible to relate the clone names as given in claims 3 and 6 with the to be searched polynucleotide defined by SEQ ID 1. Consequently, no search has been carried out for claims 3 and 6 in the context of the first subject as mentionned on the communication pursuant to Art. 17(3)(a) PCT.

The applicant's attention is drawn to the fact that claims, or parts of claims, relating to inventions in respect of which no international search report has been established need not be the subject of an international preliminary examination (Rule 66.1(e) PCT). The applicant is advised that the EPO policy when acting as an International Preliminary Examining Authority is normally not to carry out a preliminary examination on matter which has not been searched. This is the case irrespective of whether or not the claims are amended following receipt of the search report or during any Chapter II procedure.

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

Invention 1: Claims 1-11 (all partially)

A method for diagnosing or treating a prostate disorder by providing a probe, antisense, ribozyme capable of hybridizing to SEQ ID 1 or its complement, or an antibody capable of binding to a polypeptide encoded by SEQ ID 1.

Inventions 2 to 339: Claims 1,2,4,5,7-11 (all partially) and 3,6, 12-15 (all partially and as far as applicable)

As for subject 1. but respectively relating to SEQ IDs 2 to 339 (i.e. subject 2. corresponding to SEQ ID 2, subject 3. corresponding to SEQ ID 3,..., subject 339. corresponding to SEQ ID 339) and when applicable including the polynucleotide, vectors, cells and a composition containing the corresponding polypeptide.

# INTERNATIONAL SEARCH REPORT

Information on patent family members

Internat. Application No

PCT/US 99/13181

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
WO 9804689 A	05-02-1998	AU 6642996 A	20-02-1998
		EP 0951541 A	27-10-1999
		US 5882864 A	16-03-1999
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## GENES AND GENE EXPRESSION PRODUCTS THAT ARE DIFFERENTIALLY REGULATED IN PROSTATE CANCER

### FIELD OF THE INVENTION

This invention relates to the area of diagnosis, prognosis, and treatment  
5 of cancer, tumor progression, hyperproliferative cell growth, and accompanying  
physical and biological manifestations. More specifically, the invention includes  
polynucleotides that are differentially regulated in prostatic disorders, such as metastatic  
prostate cancer, localized prostate cancer, and benign prostate hyperplasia (BPH).

### BACKGROUND OF THE INVENTION

10 Genes that are up- or down-regulated in cancer or tumor progression are  
useful for therapeutic and diagnostic purposes. For example, detection of genes or gene  
expression products up-regulated in hyperproliferative cells can be a predictive or  
diagnostic marker of the onset or the progression of cancer. Early diagnosis can be  
useful if the cancer, tumors, or hyperproliferating cells can be inhibited, removed, or  
15 terminated to prevent metastasis or recurrence of cancerous growth. Such early warning  
is of particular use to prostate cancer patients, where removal of the growth, tumor, or  
cells is beneficial if the disease is confined to the prostate. There is a need in the art for  
genes related to cancer and tumor progression.

### SUMMARY OF THE INVENTION

20 The present invention provides methods and reagents for diagnosing  
cancer, tumor progression, hyperproliferative cell growth, and accompanying biological  
and physical manifestations. Reagents for such diagnostic kits include:

- (a) polynucleotides comprising a sequence capable of hybridizing to  
one or more of SEQ ID NO:1-339 or complement thereof;
- 25 (b) polypeptides comprising the amino acid sequence encoded by  
any one of SEQ ID NO:1-339; and
- (c) antibodies capable of binding polypeptides comprising the amino  
acid sequence of (b).



The methods of diagnosis of the present invention include both nucleic acid assays and immunoassays.

In another embodiment, the present invention provides both compositions and methods for treating or ameliorating cancer, tumor progression, hyperproliferative cell growth, and accompanying biological and physical manifestations. The compositions for treatment or amelioration include:

- (a) polynucleotides comprising the sequence capable of hybridizing to one or more of the sequences shown in SEQ ID NO:1-339 and complement thereof, including antisense, ribozyme and gene therapy nucleic acid constructs;
- 10 (b) polypeptides comprising the amino acid sequence encoded by any one of SEQ ID NO:1-339; and
- (c) antibodies capable of binding polypeptides of polypeptides comprising the amino acid sequence (b).

Methods of treatment or amelioration include administering compositions of polynucleotides, polypeptides, antibodies, or combinations thereof and can be used

- 15 (a) to inhibit translation and/or transcription;
- (b) to inhibit biological activity;
- (c) as a vaccine antigen; and
- (d) as an immune system inducer.

20 Such compositions can be administered systemically or locally to the desired site.

In one embodiment, the present invention provides a composition comprising an isolated polynucleotide selected from the group consisting of

- (a) any one of SEQ ID NOs:2, 5, 49, 50, 99, 100, 115, 116, 118, 130, 131, 140, 144, 145, 146, 157, 158, 159, 163, 164, 165, 166, 177, 178, 180, 211, 212, 213, 218, 219, 220, 221, 229, 232, 233, 242, 243, 248, 249, 254, 256, 257, 259, 272, 273, 277, 288, 289, 292, 293, 316, 317, and 330;
- 25 (b) a polynucleotide that encodes a variant of the polypeptide encoded by (a); and
- (c) a polynucleotide encoding a protein expressed by a polynucleotide having the sequence of any one of the sequences of (a).

30

Preferably, the nucleic acid obtained from the biological material of part (b) above is genomic DNA or mRNA. The nucleic acid can also be cDNA complementary to the mRNA.

Another embodiment of the invention is the use of the isolated  
5 polynucleotides or parts thereof as diagnostic probes or as primers.

In another embodiment, the present invention provides a composition comprising a polypeptide, wherein said polypeptide is selected from the group consisting of:

(a) a polypeptide encoded by any one of SEQ ID Nos:2, 5, 49, 50,  
10 99, 100, 115, 116, 118, 130, 131, 140, 144, 145, 146, 157, 158, 159, 163, 164, 165, 166, 177, 178, 180, 211, 212, 213, 218, 219, 220, 221, 229, 232, 233, 242, 243, 248, 249, 254, 256, 257, 259, 272, 273, 277, 288, 289, 292, 293, 316, 317, and 330;

(b) a polypeptide encoded by full-length mRNA or cDNA  
corresponding to any one of SEQ ID NO:1-339; and

15 (c) a variant of the protein (a) or (b);

In certain preferred embodiments, the polynucleotide is operably linked to an expression control sequence. The invention further provides a host cell, including bacterial, yeast, insect and mammalian cells, transformed with the polynucleotide sequence. The invention also provides the full-length cDNA and the full length human  
20 gene corresponding to the polynucleotide.

Protein and polypeptide compositions of the invention may further comprise a pharmaceutically acceptable carrier. Compositions comprising an antibody that specifically reacts with such protein or polypeptide are also provided by the present invention.

25 The invention further relates to a polypeptide or nucleic acid obtained by transforming a host cell with nucleic acid comprising at least one of SEQ ID NO:1-339, culturing the host cell, and recovering the replicated nucleic acid, the expressed RNA, and/or the expressed polypeptide.

#### Brief Description of the Figures

30 Figure 1 provides the open reading frame for clone SL 195.

Figure 2 provides the open reading frame for clone SL 197.

Figure 3 provides the immunohistochemistry staining results for clone SL 5 expression in a variety of normal and tumor tissues.

#### Detailed Description of the Invention

Genes that are up- or down-regulated in cancer or tumor progression are useful for therapeutic and diagnostic purposes. For example, a diagnostic assay to determine the stage of the disease also is useful in tailoring treatment of aggressive versus more mild cancer or tumor progression. The polynucleotide sequences and encoded polypeptides of the present invention are useful for these diagnostic or prognostic purposes.

Further, modulation of genes or gene expression products that are mis-regulated can be used to treat or ameliorate cancer, tumor progression, hyperproliferative cell growth, and the accompanying physical and biological manifestations. For example, the polynucleotide sequences provided herein as SEQ ID NO:1-339, can be used to construct the following polynucleotide and polypeptide compositions that are useful for treatment: antisense; ribozymes; antibodies; vaccine antigens; and immune system inducers, to induce dendritic cells, for example.

Identified herein are polynucleotide sequences that are upregulated in a cancer cell line, more specifically in a prostate cancer cell line. Thus, the present invention relates to methods and reagents for diagnosis, and to methods and compositions for treatment.

#### I. Use of Polynucleotides Having a Sequence of One or More of SEQ ID NO:1-339 to Obtain Full-Length cDNA and Full-Length Human Gene and Promoter Region

Full-length cDNA molecules comprising the disclosed sequences are obtained as follows. The polynucleotide or a portion thereof comprising at least 12, 15, 18, or 20 nucleotides is used as a hybridization probe to detect hybridizing members of a cDNA library using probe design methods, cloning methods, and clone selection techniques as described in U.S. Patent No. 5,654,173, "Secreted Proteins and Polynucleotides Encoding Them," incorporated herein by reference. Libraries of cDNA are made from selected tissues, such as normal or tumor tissue, or from tissues of a

mammal treated with, for example, a pharmaceutical agent. Preferably, the tissue is the same as that used to generate the polynucleotides, as both the polynucleotides and the cDNA represent expressed genes. Most preferably, the cDNA library is made from the biological material described herein in the Examples. Alternatively, many cDNA  
5 libraries are available commercially. (Sambrook *et al.*, *Molecular Cloning: A Laboratory Manual*, 2nd Ed. (Cold Spring Harbor Press, Cold Spring Harbor, NY 1989).

Members of the library that are larger than the polynucleotide, and preferably that contain the whole sequence of the native message, are obtained. In order  
10 to confirm that the entire cDNA has been obtained, RNA protection experiments are performed as follows. Hybridization of a full-length cDNA to an mRNA will protect the RNA from RNase degradation. If the cDNA is not full length, then the portions of the mRNA that are not hybridized will be subject to RNase degradation. This is assayed, as is known in the art, by changes in electrophoretic mobility on  
15 polyacrylamide gels, or by detection of released monoribonucleotides. Sambrook *et al.*, *Molecular Cloning: A Laboratory Manual*, 2nd Ed. (Cold Spring Harbor Press, Cold Spring Harbor, NY 1989). In order to obtain additional sequences 5' to the end of a partial cDNA, 5' RACE (PCR Protocols: A Guide to Methods and Applications (Academic Press, Inc. 1990)) is performed.

20 Genomic DNA is isolated using polynucleotides in a manner similar to the isolation of full-length cDNAs. Briefly, the polynucleotides, or portions thereof, are used as probes to libraries of genomic DNA. Preferably, the library is obtained from the cell type that was used to generate the polynucleotides, but this is not essential. Most preferably, the genomic DNA is obtained from the biological material described  
25 herein in the Examples. Such libraries may be in vectors suitable for carrying large segments of a genome, such as P1 or YAC, as described in detail in Sambrook *et al.*, 9.4-9.30. In addition, genomic sequences can be isolated from human BAC libraries, which are commercially available from Research Genetics, Inc., Huntsville, Alabama, USA, for example. In order to obtain additional 5' or 3' sequences, chromosome  
30 walking is performed, as described in Sambrook *et al.*, such that adjacent and

overlapping fragments of genomic DNA are isolated. These are mapped and pieced together, as is known in the art, using restriction digestion enzymes and DNA ligase.

Using the polynucleotide sequences of the invention, corresponding full length genes can be isolated using both classical and PCR methods to construct and  
5 probe cDNA libraries. Using either method, Northern blots, preferably, are performed on a number of cell types to determine which cell lines express the gene of interest at the highest rate.

Classical methods of constructing cDNA libraries are taught in Sambrook et al., supra. With these methods, cDNA can be produced from mRNA and  
10 inserted into viral or expression vectors. Typically, libraries of mRNA comprising poly(A) tails can be produced with poly(T) primers. Similarly, cDNA libraries can be produced using the instant sequences as primers.

PCR methods are used to amplify the members of a cDNA library that comprise the desired insert. In this case, the desired insert will contain sequence from  
15 the full length cDNA that corresponds to the instant ESTs. Such PCR methods include gene trapping and RACE methods. Gruber *et al.*, PCT WO 95/04745 and Gruber *et al.*, U.S. Pat. No. 5,500,356. Kits are commercially available to perform gene trapping experiments from, for example, Life Technologies, Gaithersburg, Maryland, USA. PCT Pub. No. WO 97/19110. (Apte and Siebert, *Biotechniques* 15:890-893, 1993; Edwards  
20 *et al.*, *Nuc. Acids Res.* 19:5227-5232, 1991).

The promoter region of a gene generally is located 5' to the initiation site for RNA polymerase II, and can be obtained by performing 5' RACE using a primer from the coding region of the gene. Alternatively, the cDNA can be used as a probe for the genomic sequence, and the region 5' to the coding region is identified by "walking  
25 up." If the gene is highly expressed or differentially expressed, the promoter from the gene may be of use in a regulatory construct for a heterologous gene.

Once the full-length cDNA or gene is obtained, DNA encoding variants can be prepared by site-directed mutagenesis, described in detail in Sambrook *et al.*, 15.3-15.63. The choice of codon or nucleotide to be replaced can be based on disclosure  
30 herein on optional changes in amino acids to achieve altered protein structure and/or function.

As an alternative method to obtaining DNA or RNA from a biological material, nucleic acid comprising nucleotides having the sequence of one or more polynucleotides of the invention can be synthesized. Thus, the invention encompasses nucleic acid molecules ranging in length from 15 nucleotides (corresponding to at least 5 15 contiguous nucleotides of one of SEQ ID NO:1-339) up to a maximum length suitable for one or more biological manipulations, including replication and expression, of the nucleic acid molecule. The invention includes but is not limited to (a) nucleic acid having the size of a full gene, and comprising at least one of SEQ ID NO:1-339; (b) the nucleic acid of (a) also comprising at least one additional gene, operably linked 10 to permit expression of a fusion protein; (c) an expression vector comprising (a) or (b); (d) a plasmid comprising (a) or (b) ; and (e) a recombinant viral particle comprising (a) or (b).

The sequence of a nucleic acid comprising at least 15 contiguous nucleotides of at least any one of SEQ ID NO:1-339, preferably the entire sequence of 15 at least any one of SEQ ID NO:1-339, is not limited and can be any sequence of A, T, G, and/or C (for DNA) and A, U, G, and/or C (for RNA) or modified bases thereof, including inosine and pseudouridine. The choice of sequence will depend on the desired function and can be dictated by coding regions desired, the intron-like regions desired, and the regulatory regions desired.

20 Where the entire sequence of any one of SEQ ID NO:1-339 is within the nucleic acid, the nucleic acid obtained is referred to herein as a polynucleotide comprising the sequence of any one of SEQ ID NO:1-339.

## II. Expression of Polypeptide Encoded by Full-Length cDNA or Full-Length Gene

The polynucleotide, the corresponding cDNA, or the full-length gene is 25 used to express the partial or complete gene product. Appropriate polynucleotide constructs are purified using standard recombinant DNA techniques as described in, for example, Sambrook *et al.*, (1989) *Molecular Cloning: A Laboratory Manual*, 2nd ed. (Cold Spring Harbor Press, Cold Spring Harbor, New York). The polypeptides encoded by the polynucleotides are expressed in any expression system, including, for example,

bacterial, yeast, insect, amphibian and mammalian systems. Suitable vectors and host cells are described in U.S. Patent No. 5,654,173.

Bacteria. Expression systems in bacteria include those described in Chang *et al.*, *Nature* (1978) 275:615, Goeddel *et al.*, *Nature* (1979) 281:544, Goeddel *et al.*, *Nucleic Acids Res.* (1980) 8:4057; EP 0 036,776, U.S. Patent No. 4,551,433, DeBoer *et al.*, *Proc. Natl. Acad. Sci. (USA)* (1983) 80:21-25, and Siebenlist *et al.*, *Cell* (1980) 20:269.

Yeast. Expression systems in yeast include those described in Hinnen *et al.*, *Proc. Natl. Acad. Sci. (USA)* (1978) 75:1929; Ito *et al.*, *J. Bacteriol.* (1983) 153:163; Kurtz *et al.*, *Mol. Cell. Biol.* (1986) 6:142; Kunze *et al.*, *J. Basic Microbiol.* (1985) 25:141; Gleeson *et al.*, *J. Gen. Microbiol.* (1986) 132:3459, Roggenkamp *et al.*, *Mol. Gen. Genet.* (1986) 202:302; Das *et al.*, *J. Bacteriol.* (1984) 158:1165; De Louvencourt *et al.*, *J. Bacteriol.* (1983) 154:737, Van den Berg *et al.*, *Bio/Technology* (1990) 8:135; Kunze *et al.*, *J. Basic Microbiol.* (1985) 25:141; Cregg *et al.*, *Mol. Cell. Biol.* (1985) 5:3376, U.S. Patent Nos. 4,837,148 and 4,929,555; Beach and Nurse, *Nature* (1981) 300:706; Davidow *et al.*, *Curr. Genet.* (1985) 10:380, Gaillardin *et al.*, *Curr. Genet.* (1985) 10:49, Ballance *et al.*, *Biochem. Biophys. Res. Commun.* (1983) 112:284-289; Tilburn *et al.*, *Gene* (1983) 26:205-221, Yelton *et al.*, *Proc. Natl. Acad. Sci. (USA)* (1984) 81:1470-1474, Kelly and Hynes, *EMBO J.* (1985) 4:475479; EP 0 244,234, and WO 91/00357.

Insect Cells. Expression of heterologous genes in insects is accomplished as described in U.S. Patent No. 4,745,051, Friesen *et al.* (1986) "The Regulation of Baculovirus Gene Expression" in: *The Molecular Biology Of Baculoviruses* (W. Doerfler, ed.), EP 0 127,839, EP 0 155,476, and Vlak *et al.*, *J. Gen. Virol.* (1988) 69:765-776, Miller *et al.*, *Ann. Rev. Microbiol.* (1988) 42:177, Carbonell *et al.*, *Gene* (1988) 73:409, Maeda *et al.*, *Nature* (1985) 315:592-594, Lebacqz-Verheyden *et al.*, *Mol. Cell. Biol.* (1988) 8:3129; Smith *et al.*, *Proc. Natl. Acad. Sci. (USA)* (1985) 82:8404, Miyajima *et al.*, *Gene* (1987) 58:273; and Martin *et al.*, *DNA* (1988) 7:99. Numerous baculoviral strains and variants and corresponding permissive insect host cells from hosts are described in Luckow *et al.*, *Bio/Technology*

(1988) 6:47-55, Miller *et al.*, Generic Engineering (Setlow, J.K. *et al.* eds.), Vol. 8 (Plenum Publishing, 1986), pp. 277-279, and Maeda *et al.*, *Nature*, (1985) 315:592-594.

Mammalian Cells. Mammalian expression is accomplished as described in Dijkema *et al.*, *EMBO J.* (1985) 4:761, Gorman *et al.*, *Proc. Natl. Acad. Sci. (USA)* 5 (1982) 79:6777, Boshart *et al.*, *Cell* (1985) 41:521 and U.S. Patent No. 4,399,216. Other features of mammalian expression are facilitated as described in Ham and Wallace, *Meth. Enz.* (1979) 58:44, Barnes and Sato, *Anal. Biochem.* (1980) 102:255, U.S. Patent Nos. 4,767,704, 4,657,866, 4,927,762, 4,560,655, WO 90/103430, WO 87/00195, and U.S. RE 30,985.

10 Polynucleotide molecules comprising the polynucleotide sequence are propagated by placing the molecule in a vector. Viral and non-viral vectors are used, including plasmids. The choice of plasmid will depend on the type of cell in which propagation is desired and the purpose of propagation. Certain vectors are useful for amplifying and making large amounts of the desired DNA sequence. Other vectors are  
15 suitable for expression in cells in culture. Still other vectors are suitable for transfer and expression in cells in a whole animal or person. The choice of appropriate vector is well within the skill of the art. Many such vectors are available commercially. The polynucleotide is inserted into a vector typically by means of DNA ligase attachment to a cleaved restriction enzyme site in the vector. Alternatively, the desired nucleotide  
20 sequence may be inserted by homologous recombination in vivo. Typically this is accomplished by attaching regions of homology to the vector on the flanks of the desired nucleotide sequence. Regions of homology are added by ligation of oligonucleotides, or by polymerase chain reaction using primers comprising both the region of homology and a portion of the desired nucleotide sequence, for example.

25 Polynucleotides are linked to regulatory sequences as appropriate to obtain the desired expression properties. These may include promoters (attached either at the 5' end of the sense strand or at the 3' end of the antisense strand), enhancers, terminators, operators, repressors, and inducers. The promoters may be regulated or constitutive. In some situations it may be desirable to use conditionally active  
30 promoters, such as tissue-specific or developmental stage-specific promoters. These are



linked to the desired nucleotide sequence using the techniques described above for linkage to vectors. Any techniques known in the art may be used.

When any of the above host cells, or other appropriate host cells or organisms, are used to replicate and/or express the polynucleotides or nucleic acids of the invention, the resulting replicated nucleic acid, RNA, expressed protein or polypeptide, is within the scope of the invention as a product of the host cell or organism. The product is recovered by any appropriate means known in the art.

Once the gene corresponding to the polypeptide is identified, its expression can be regulated in the cell to which the gene is native. For example, an endogenous gene of a cell can be regulated by an exogenous regulatory sequence as disclosed in U.S. Patent No. 5,641,670, "Protein Production and Protein Delivery."

#### Ribozymes

Trans-cleaving catalytic RNAs (ribozymes) are RNA molecules possessing endoribonuclease activity. Ribozymes are specifically designed for a particular target, and the target message must contain a specific nucleotide sequence. They are engineered to cleave any RNA species site-specifically in the background of cellular RNA. The cleavage event renders the mRNA unstable and prevents protein expression. Importantly, ribozymes can be used to inhibit expression of a gene of unknown function for the purpose of determining its function in an in vitro or in vivo context, by detecting the phenotypic effect.

One commonly used ribozyme motif is the hammerhead, for which the substrate sequence requirements are minimal. Design of the hammerhead ribozyme is disclosed in Usman *et al.*, *Current Opin. Struct. Biol.* (1996) 6:527-533. Usman also discusses the therapeutic uses of ribozymes. Ribozymes can also be prepared and used as described in Long *et al.*, *FASEB J.* (1993) 7:25; Symons, *Ann. Rev. Biochem.* (1992) 61:641; Perrotta *et al.*, *Biochem.* (1992) 31:16-17; Ojwang *et al.*, *Proc. Natl. Acad. Sci. (USA)* (1992) 89:10802-10806; and U.S. Patent No. 5,254,678. Ribozyme cleavage of HIV-I RNA is described in U.S. Patent No. 5,144,019; methods of cleaving RNA using ribozymes is described in U.S. Patent No. 5,116,742; and methods for increasing the specificity of ribozymes are described in U.S. Patent No. 5,225,337 and Koizumi *et al.*,

*Nucleic Acid Res.* (1989) 17:7059-7071. Preparation and use of ribozyme fragments in a hammerhead structure are also described by Koizumi *et al.*, *Nucleic Acids Res.* (1989) 17:7059-7071. Preparation and use of ribozyme fragments in a hairpin structure are described by Chowrira and Burke, *Nucleic Acids Res.* (1992) 20:2835. Ribozymes can  
5 also be made by rolling transcription as described in Daubendiek and Kool, *Nat. Biotechnol.* (1997) 15(3):273-277.

The hybridizing region of the ribozyme may be modified or may be prepared as a branched structure as described in Horn and Urdea, *Nucleic Acids Res.* (1989) 17:6959-67. The basic structure of the ribozymes may also be chemically  
10 altered in ways familiar to those skilled in the art, and chemically synthesized ribozymes can be administered as synthetic oligonucleotide derivatives modified by monomeric units. In a therapeutic context, liposome mediated delivery of ribozymes improves cellular uptake, as described in Birikh *et al.*, *Eur. J. Biochem.* (1997) 245:1-16.

15 Therapeutic and functional genomic applications of ribozymes proceed beginning with knowledge of a portion of the coding sequence of the gene to be inhibited. Thus, for many genes, a polynucleotide sequence as disclosed herein provides adequate sequence for constructing an effective ribozyme. A target cleavage site is selected in the target sequence, and a ribozyme is constructed based on the 5' and  
20 3' nucleotide sequences that flank the cleavage site. Retroviral vectors are engineered to express monomeric and multimeric hammerhead ribozymes targeting the mRNA of the target coding sequence. These monomeric and multimeric ribozymes are tested in vitro for an ability to cleave the target mRNA. A cell line is stably transduced with the retroviral vectors expressing the ribozymes, and the transduction is confirmed by  
25 Northern blot analysis and reverse-transcription polymerase chain reaction (RT-PCR). The cells are screened for inactivation of the target mRNA by such indicators as reduction of expression of disease markers or reduction of the gene product of the target mRNA.

Antisense

Antisense nucleic acids are designed to specifically bind to RNA, resulting in the formation of RNA-DNA or RNA-RNA hybrids, with an arrest of DNA replication, reverse transcription or messenger RNA translation. Antisense polynucleotides based on a selected sequence can interfere with expression of the corresponding gene. Antisense polynucleotides are typically generated within the cell by expression from antisense constructs that contain the antisense EST strand as the transcribed strand. Antisense polynucleotides will bind and/or interfere with the translation of the corresponding mRNA. The expression products of control cells and cells treated with the antisense construct are compared to detect the protein product of the gene corresponding to the polynucleotide. The protein is isolated and identified using routine biochemical methods.

Antisense therapy for a variety of cancers is in clinical phase and has been discussed extensively in the literature. Reed reviewed antisense therapy directed at the Bcl-2 gene in tumors; gene transfer-mediated overexpression of Bcl-2 in tumor cell lines conferred resistance to many types of cancer drugs. (Reed, J.C., *N.C.I.* (1997) 89:988-990). The potential for clinical development of antisense inhibitors of *ras* is discussed by Cowser, L.M., *Anti-Cancer Drug Design* (1997) 12:359-371. Additional important antisense targets include leukemia (Geurtz, A.M., *Anti-Cancer Drug Design* (1997) 12:341-358); human C-ref kinase (Monia, B.P., *Anti-Cancer Drug Design* (1997) 12:327-339); and protein kinase C (McGraw *et al.*, *Anti-Cancer Drug Design* (1997) 12:315-326).

Given the extensive background literature and clinical experience in antisense therapy, one skilled in the art can use selected polynucleotides of the invention as additional potential therapeutics. The choice of polynucleotide can be narrowed by first testing them for binding to "hot spot" regions of the genome of cancerous cells. If a polynucleotide is identified as binding to a "hot spot", testing the polynucleotide as an antisense compound in the corresponding cancer cells clearly is warranted.

Ogunbiyi *et al.*, *Gastroenterology* (1997) 113(3):761-766 describe prognostic use of allelic loss in colon cancer; Barks *et al.*, *Genes, Chromosomes, and*

*Cancer* (1997) 19(4):278-285 describe increased chromosome copy number detected by FISH in malignant melanoma; Nishizake *et al.*, *Genes, Chromosomes, and Cancer* (1997) 19(4):267-272 describe genetic alterations in primary breast cancer and their metastases and direct comparison using modified comparative genome hybridization; and Elo *et al.*, *Cancer Research* (1997) 57(16):3356-3359 disclose that loss of heterozygosity at 16z24.1-q24.2 is significantly associated with metastatic and aggressive behavior of prostate cancer.

#### Dominant Negative Mutations

Dominant negative mutations are readily generated for corresponding proteins that are active as homomultimers. A mutant polypeptide will interact with wild-type polypeptides (made from the other allele) and form a non-functional multimer. Thus, a mutation is in a substrate-binding domain, a catalytic domain, or a cellular localization domain. Preferably, the mutant polypeptide will be overproduced. Point mutations are made that have such an effect. In addition, fusion of different polypeptides of various lengths to the terminus of a protein can yield dominant negative mutants. General strategies are available for making dominant negative mutants. See Herskowitz, *Nature* (1987) 329:219-222. Such a technique can be used for creating a loss of function mutation, which is useful for determining the function of a protein.

#### Identification of Secreted and Membrane-Bound Polypeptides

Both secreted and membrane-bound polypeptides of the present invention are of interest. For example, levels of secreted polypeptides can be assayed conveniently in body fluids, such as blood, urine, prostatic fluid and semen. Membrane-bound polypeptides are useful for constructing vaccine antigens or inducing an immune response. Such antigens would comprise all or part of the extracellular region of the membrane-bound polypeptides.

Because both secreted and membrane-bound polypeptides comprise a fragment of contiguous hydrophobic amino acids, hydrophobicity predicting algorithms can be used to identify such polypeptides.

A signal sequence is usually encoded by both secreted and membrane-bound polypeptide genes to direct a polypeptide to the surface of the cell. The signal

sequence usually comprises a stretch of hydrophobic residues. Such signal sequences can fold into helical structures.

Membrane-bound polypeptides typically comprise at least one transmembrane region that possesses a stretch of hydrophobic amino acids that can transverse the membrane. Some transmembrane regions also exhibit a helical structure.

Hydrophobic fragments within a polypeptide can be identified by using computer algorithms. Such algorithms include Hopp & Woods, Proc. Natl. Acad. Sci. USA 78: 3824-3828 (1981); Kyte & Doolittle, J. Mol. Biol. 157: 105-132 (1982); and RAOAR algorithm, Degli Esposti *et al.*, Eur. J. Biochem. 190: 207-219 (1990).

Another method of identifying secreted and membrane-bound polypeptides is to translate the present polynucleotides, SEQ ID NO:1-339, in all six frames and determine if at least 8 contiguous hydrophobic amino acids are present. Those translated polypeptides with at least 8; more typically, 10; even more typically, 12 contiguous hydrophobic amino acids are considered to be either a putative secreted or membrane bound polypeptide. Hydrophobic amino acids include alanine, glycine, histidine, isoleucine, leucine, lysine, methionine, phenylalanine, proline, threonine, tryptophan, tyrosine, and valine.

Putative secreted and/or membrane-bound polypeptides are encoded by the sequences of the following clones: SL-5, SL-6, SL-9, SL-11, SL-13, SL-90, SL-100, SL-107, SL-124, SL-135, SL-139, SL-143, SL-152, SL-153, SL-173, and SL-177.

#### Construction of Polypeptides of the Invention and Variants Thereof

The polypeptides of the invention include those encoded by the disclosed polynucleotides. These polypeptides can also be encoded by nucleic acids that, by virtue of the degeneracy of the genetic code, are not identical in sequence to the disclosed polynucleotides. Thus, the invention includes within its scope nucleic acids comprising polynucleotides encoding a protein or polypeptide expressed by a polynucleotide having the sequence of any one of SEQ ID NO:1-339. Also within the scope of the invention are variants; variants of polypeptides include mutants, fragments, and fusions. Mutants can include amino acid substitutions, additions or deletions. The amino acid substitutions can be conservative amino acid substitutions or substitutions to

eliminate non-essential amino acids, such as to alter a glycosylation site, a phosphorylation site or an acetylation site, or to minimize misfolding by substitution or deletion of one or more cysteine residues that are not necessary for function. Conservative amino acid substitutions are those that preserve the general charge, hydrophobicity/hydrophilicity, and/or steric bulk of the amino acid substituted. For example, substitutions between the following groups are conservative: Gly/Ala, Val/Ile/Leu, Asp/Glu, Lys/Arg, Asn/Gln, Ser/Cys,Thr, and Phe/Trp/Tyr.

Cysteine-depleted muteins are variants within the scope of the invention. These variants can be constructed according to methods disclosed in U.S. Patent No. 4,959,314, "Cysteine-Depleted Muteins of Biologically Active Proteins." The patent discloses how to substitute other amino acids for cysteines, and how to determine biological activity and effect of the substitution. Such methods are suitable for proteins according to this invention that have cysteine residues suitable for such substitutions, for example to eliminate disulfide bond formation.

The protein variants described herein are encoded by polynucleotides that are within the scope of the invention. The genetic code can be used to select the appropriate codons to construct the corresponding variants.

The invention encompasses polynucleotide sequences having at least 65% sequence identity to any one of SEQ ID NOs:1-339 as determined by the Smith-Waterman homology search algorithm as implemented in MSPRCH program (Oxford Molecular) using an affine gap search with the following search parameters: gap open penalty of 12, and gap extension penalty of 1.

#### Use of the Polynucleotides as Probes, in Mapping, and in Tissue Profiling

##### Probes

Polynucleotide probes comprising at least 12 contiguous nucleotides selected from the nucleotide sequence of a polynucleotide of SEQ ID NO:1-339 are used for a variety of purposes, including identification of human chromosomes and determining transcription levels.

The nucleotide probes are labeled, for example, with a radioactive, fluorescent, biotinylated, or chemiluminescent label, and detected by well known

methods appropriate for the particular label selected. Protocols for hybridizing nucleotide probes to preparations of metaphase chromosomes are also well known in the art. A nucleotide probe will hybridize specifically to nucleotide sequences in the chromosome preparations which are complementary to the nucleotide sequence of the probe. A probe that hybridizes specifically to a polynucleotide should provide a detection signal at least 5-, 10-, or 20-fold higher than the background hybridization provided with other unrelated sequences.

In a non-limiting example, commercial programs are available for identifying regions of chromosomes commonly associated with disease, such as cancer. Polynucleotides of the invention can be used to probe these regions. For example, if through profile searching a polynucleotide is identified as corresponding to a gene encoding a kinase, its ability to bind to a cancer-related chromosomal region will suggest its role as a kinase in one or more stages of tumor cell development/growth. Although some experimentation would be required to elucidate the role, the polynucleotide constitutes a new material for isolating a specific protein that has potential for developing a cancer diagnostic or therapeutic.

Nucleotide probes are used to detect expression of a gene corresponding to the polynucleotide. For example, in Northern blots, mRNA is separated electrophoretically and contacted with a probe. A probe is detected as hybridizing to an mRNA species of a particular size. The amount of hybridization is quantitated to determine relative amounts of expression, for example under a particular condition. Probes are also used to detect products of amplification by polymerase chain reaction. The products of the reaction are hybridized to the probe and hybrids are detected. Probes are used for in situ hybridization to cells to detect expression. Probes can also be used in vivo for diagnostic detection of hybridizing sequences. Probes are typically labeled with a radioactive isotope. Other types of detectable labels may be used such as chromophores, fluors, and enzymes.

Expression of specific mRNA can vary in different cell types and can be tissue specific. This variation of mRNA levels in different cell types can be exploited with nucleic acid probe assays to determine tissue types. For example, PCR, branched DNA probe assays, or blotting techniques utilizing nucleic acid probes substantially

identical or complementary to polynucleotides listed in the Sequence Listing can determine the presence or absence of cDNA or mRNA related to the polynucleotides of the invention.

Examples of a nucleotide hybridization assay are described in Urdea *et al.*, PCT WO92/02526 and Urdea *et al.*, U.S. Patent No. 5,124,246, both incorporated  
5 herein by reference. The references describe an example of a sandwich nucleotide hybridization assay.

Alternatively, the Polymerase Chain Reaction (PCR) is another means for detecting small amounts of target nucleic acids, as described in Mullis *et al.*, *Meth.*  
10 *Enzymol.* (1987) 155:335-350; U.S. Patent No. 4,683,195; and U.S. Patent No. 4,683,202, all incorporated herein by reference. Two primer polynucleotides nucleotides hybridize with the target nucleic acids and are used to prime the reaction. The primers may be composed of sequence within or 3' and 5' to the polynucleotides of the Sequence Listing. Alternatively, if the primers are 3' and 5' to these polynucleotides,  
15 they need not hybridize to them or the complements. A thermostable polymerase creates copies of target nucleic acids from the primers using the original target nucleic acids as a template. After a large amount of target nucleic acids is generated by the polymerase, it is detected by methods such as Southern blots. When using the Southern blot method, the labeled probe will hybridize to a polynucleotide of the Sequence  
20 Listing or complement.

Furthermore, mRNA or cDNA can be detected by traditional blotting techniques described in Sambrook *et al.*, "Molecular Cloning: A Laboratory Manual" (New York, Cold Spring Harbor Laboratory, 1989). mRNA or cDNA generated from  
25 mRNA using a polymerase enzyme can be purified and separated using gel electrophoresis. The nucleic acids on the gel are then blotted onto a solid support, such as nitrocellulose. The solid support is exposed to a labeled probe and then washed to remove any unhybridized probe. Next, the duplexes containing the labeled probe are detected. Typically, the probe is labeled with radioactivity.



### Mapping

Polynucleotides of the present invention are used to identify a chromosome on which the corresponding gene resides. Using fluorescence in situ hybridization (FISH) on normal metaphase spreads, comparative genomic hybridization  
5 allows total genome assessment of changes in relative copy number of DNA sequences. See Schwartz and Samad, *Current Opinions in Biotechnology* (1994) 8:70-74; Kallioniemi *et al.*, *Seminars in Cancer Biology* (1993) 4:41-46; Valdes and Tagle, *Methods in Molecular Biology* (1997) 68:1, Boultonwood, ed., Human Press, Totowa, NJ.

Preparations of human metaphase chromosomes are prepared using  
10 standard cytogenetic techniques from human primary tissues or cell lines. Nucleotide probes comprising at least 12 contiguous nucleotides selected from the nucleotide sequence shown in the Sequence Listing are used to identify the corresponding chromosome. The nucleotide probes are labeled, for example, with a radioactive, fluorescent, biotinylated, or chemiluminescent label, and detected by well known  
15 methods appropriate for the particular label selected. Protocols for hybridizing nucleotide probes to preparations of metaphase chromosomes are also well known in the art. A nucleotide probe will hybridize specifically to nucleotide sequences in the chromosome preparations that are complementary to the nucleotide sequence of the probe. A probe that hybridizes specifically to a polynucleotide-related gene provides a  
20 detection signal at least 5-, 10-, or 20-fold higher than the background hybridization provided with non-EST coding sequences.

Polynucleotides are mapped to particular chromosomes using, for example, radiation hybrids or chromosome-specific hybrid panels. See Leach *et al.*, *Advances in Genetics*, (1995) 33:63-99; Walter *et al.*, *Nature Genetics* (1994) 7:22-28;  
25 Walter and Goodfellow, *Trends in Genetics* (1992) 9:352. Such mapping can be useful in identifying the function of the polynucleotide-related gene by its proximity to other genes with known function. Function can also be assigned to the related gene when particular syndromes or diseases map to the same chromosome.

### Tissue Profiling

30 The polynucleotides of the present invention can be used to determine the tissue type from which a given sample is derived. For example, a metastatic lesion

is identified by its developmental organ or tissue source by identifying the expression of a particular marker of that organ or tissue. If a polynucleotide is expressed only in a specific tissue type, and a metastatic lesion is found to express that polynucleotide, then the developmental source of the lesion has been identified. Expression of a particular polynucleotide is assayed by detection of either the corresponding mRNA or the protein product. Immunological methods, such as antibody staining, are used to detect a particular protein product. Hybridization methods may be used to detect particular mRNA species, including but not limited to in situ hybridization and Northern blotting.

#### Use of Polymorphisms

A polynucleotide will be useful in forensics, genetic analysis, mapping, and diagnostic applications if the corresponding region of a gene is polymorphic in the human population. A particular polymorphic form of the polynucleotide may be used to either identify a sample as deriving from a suspect or rule out the possibility that the sample derives from the suspect. Any means for detecting a polymorphism in a gene are used, including but not limited to electrophoresis of protein polymorphic variants, differential sensitivity to restriction enzyme cleavage, and hybridization to an allele-specific probe.

#### Use of Polynucleotides to Raise Antibodies

Expression products of a polynucleotide, the corresponding mRNA or cDNA, or the corresponding complete gene are prepared and used for raising antibodies for experimental, diagnostic, and therapeutic purposes. The polynucleotide or related cDNA is expressed as described above, and antibodies are prepared. These antibodies are specific to an epitope on the polynucleotide-encoded polypeptide, and can precipitate or bind to the corresponding native protein in a cell or tissue preparation or in a cell-free extract of an in vitro expression system.

Immunogens for raising antibodies are prepared by mixing the polypeptides encoded by the polynucleotide of the present invention with adjuvants. Alternatively, polypeptides are made as fusion proteins to larger immunogenic proteins. Polypeptides are also covalently linked to other larger immunogenic proteins, such as keyhole limpet hemocyanin. Immunogens are typically administered intradermally,

subcutaneously, or intramuscularly. Immunogens are administered to experimental animals such as rabbits, sheep, and mice, to generate antibodies. Optionally, the animal spleen cells are isolated and fused with myeloma cells to form hybridomas which secrete monoclonal antibodies. Such methods are well known in the art. According to  
5 another method known in the art, the polynucleotide is administered directly, such as by intramuscular injection, and expressed in vivo. The expressed protein generates a variety of protein-specific immune responses, including production of antibodies, comparable to administration of the protein.

Preparations of polyclonal and monoclonal antibodies specific for  
10 polynucleotide-encoded proteins and polypeptides are made using standard methods known in the art. The antibodies specifically bind to epitopes present in the polypeptides encoded by polynucleotides disclosed in the Sequence Listing. Typically, at least 6, 8, 10, or 12 contiguous amino acids are required to form an epitope. However, epitopes which involve non-contiguous amino acids may require more, for  
15 example at least 15, 25, or 50 amino acids. A short sequence of a polynucleotide may then be unsuitable for use as an epitope to raise antibodies for identifying the corresponding novel protein, because of the potential for cross-reactivity with a known protein. However, the antibodies may be useful for other purposes, particularly if they identify common structural features of a known protein and a novel polypeptide  
20 encoded by a polynucleotide of the invention.

Antibodies that specifically bind to human polynucleotide-encoded polypeptides should provide a detection signal at least 5-, 10-, or 20-fold higher than a detection signal provided with other proteins when used in Western blots or other immunochemical assays. Preferably, antibodies that specifically bind polypeptides do  
25 not detect other proteins in immunochemical assays and can immunoprecipitate EST-encoded proteins from solution. For such immunoassays, any type of samples can be used, including tissue, organs, cells, urine, blood, prostatic fluid or semen.

Of interest are antibodies to the secreted polypeptides encoded by the present polynucleotide sequences, SEQ ID NO:1-339. Antibodies to secreted  
30 polypeptides can be used to test body fluids, such as blood, urine, prostatic fluid and semen.

To test for the presence of serum antibodies to the polypeptide in a human population, human antibodies are purified by methods well known in the art. Preferably, the antibodies are affinity purified by passing antiserum over a column to which a protein, polypeptide, or fusion protein is bound. The bound antibodies can then  
5 be eluted from the column, for example using a buffer with a high salt concentration.

In addition to the antibodies discussed above, genetically engineered antibody derivatives are made, such as single chain antibodies or humanized antibodies.

Antibodies to the polypeptides encoded by one or more of SEQ ID NO:1-339 also are contemplated for therapeutic compositions and uses. For example,  
10 antibodies directed to membrane-bound polypeptides that are up-regulated in cancer, tumor progression, hyperproliferative growth, and/or accompanying biological or physical manifestations can be constructed. Antibodies can provide a useful therapeutic in inhibiting cell growth or inducing an immune reaction to cancer, tumor, or hyperproliferating cells. Typically, such antibodies are directed the extracellular  
15 regions of the membrane-bound polypeptide. The borders of such regions can be determined by identifying the location of the hydrophobic transmembrane fragment(s) in the encoded polypeptides of the present invention.

Exemplary antibodies were prepared using two sequences from clone SL-5:  $\text{H}_2\text{N-CGPRLPSFPCPTHEPSTGQLSK-CONH}_2$  and  $\text{H}_2\text{N-CKDSQGLSDFKR-NSRTTTRRSYKCCONH}_2$ . Using polyclonal antibodies raised against a mixture of  
20 these polypeptides, immunohistochemistry was performed on a variety of tumor tissues and corresponding normal tissue. The results are shown in Figure 3, and discussed in the Examples. These polypeptides are useful for detecting a higher level of expression of clone SL-5 in tumor tissues.

## 25 Use of Polynucleotides to Construct Arrays for Diagnostics

The present polynucleotide sequences and gene products are useful for determining the occurrence of cancer, tumor progression, hyperproliferative growth, and/or accompanying biological or physical manifestations. Specifically, the polynucleotides and encoded polypeptides of the instant invention can be utilized to

determine the occurrence of prostatic disorders, such as BPH or localized prostate cancer.

A number of prostatic disorders exist, including adenocarcinoma, BPH, histologic prostate cancer, prostatic intraepithelial neoplasia, clinical prostate cancer, incidental prostate cancer, and localized prostate cancer. BPH is a common prostatic disorder in men which becomes clinically manifest usually after age fifty. In BPH, hyperplastic growth of prostatic cells in the periurethral glandular tissue in the central zone of the prostate gland cause an enlarged prostate which can compress or elongate the urethra and produce symptoms of urethral obstruction that may progress to urinary retention or to a constellation of symptoms known as prostatism. A host of physical manifestations can accompany prostatic disorders including: impotency, reduced urinary flow, hesitancy in initiating voiding, postvoid dribbling, a sensation of incomplete bladder emptying, and development of bladder or high urinary tract infections.

To determine the occurrence of cancer, tumor progression, hyperproliferative growth, and/or accompanying biological or physical manifestations, the levels of polynucleotides and/or encoded polypeptides of the present invention in a sample are compared to the levels in a normal control of body tissues, cells, organs, or fluids. The normal control can include a pool of cells from a particular organ or tissue or tissues and/or cells from throughout the body. Either the immunoassays described above or the nucleic acid assays described below can be used for such measurements.

Any observed difference between the sample and normal control can indicate the occurrence of disease or disorder. Typically, if the levels of the polynucleotides and the encoded polypeptides of the present invention are higher than those found in the normal control, the results indicate the occurrence of cancer, tumor progression, hyperproliferative growth, and/or accompanying biological or physical manifestations.

In addition, the present polynucleotides can be useful to diagnose the severity as well as the occurrence of cancer, tumor progression, hyperproliferative growth, and/or accompanying biological or physical manifestations, including prostatic disorders. For example, the greater the difference observed in the sample versus the

normal control of the present polynucleotides or encoded polypeptides, the greater the severity of the disorder, in particular, when higher levels as compared to a normal control are observed.

The present polynucleotides, as shown in SEQ ID NO:1-339, were  
5 expressed at higher levels in a prostate cancer cell line versus a normal prostate epithelial cell line.

Polynucleotide arrays provide a high throughput technique that can assay a large number of polynucleotide sequences in a sample. This technology can be used as a diagnostic and as a tool to test for differential expression to determine function of  
10 an encoded protein.

To create arrays, polynucleotide probes are spotted onto a substrate in a two-dimensional matrix or array. Samples of polynucleotides can be labeled and then hybridized to the probes. Double stranded polynucleotides, comprising the labeled sample polynucleotides bound to probe polynucleotides, can be detected once the  
15 unbound portion of the sample is washed away.

The probe polynucleotides can be spotted on substrates including glass, nitrocellulose, etc. The probes can be bound to the substrate by either covalent bonds or by non-specific interactions, such as hydrophobic interactions. The sample polynucleotides can be labeled using radioactive labels, fluorophors, etc.

20 Techniques for constructing arrays and methods of using these arrays are described in EP No. 0 799 897; PCT No. WO 97/29212; PCT No. WO 97/27317; EP No. 0 785 280; PCT No. WO 97/02357; U.S. Pat. No. 5,593,839; U.S. Pat. No. 5,578,832; EP No. 0 728 520; U.S. Pat. No. 5,599,695; EP No. 0 721 016; U.S. Pat. No. 5,556,752; PCT No. WO 95/22058; and U.S. Pat. No. 5,631,734.

25 Further, arrays can be used to examine differential expression of genes and can be used to determine gene function. For example, arrays of the instant polynucleotide sequences can be used to determine if any of the EST sequences are differentially expressed between normal cells and cancer cells, for example. High expression of a particular message in a cancer cell, which is not observed in a  
30 corresponding normal cell, can indicate a cancer specific protein.

Differential Expression

The present invention also provides a method to identify abnormal or diseased tissue in a human. For polynucleotides corresponding to profiles of protein families as described above, the choice of tissue may be dictated by the putative biological function. The expression of a gene corresponding to a specific polynucleotide is compared between a first tissue that is suspected of being diseased and a second, normal tissue of the human. The normal tissue is any tissue of the human, especially those that express the polynucleotide-related gene including, but not limited to, brain, thymus, testis, heart, prostate, placenta, spleen, small intestine, skeletal muscle, pancreas, and the mucosal lining of the colon.

The polynucleotide-related genes in the two tissues are compared by any means known in the art. For example, the two genes are sequenced, and the sequence of the gene in the tissue suspected of being diseased is compared with the gene sequence in the normal tissue. The polynucleotide-related genes, or portions thereof, in the two tissues are amplified, for example using nucleotide primers based on the nucleotide sequence shown in the Sequence Listing, using the polymerase chain reaction. The amplified genes or portions of genes are hybridized to nucleotide probes selected from the same nucleotide sequence shown in the Sequence Listing. A difference in the nucleotide sequence of the polynucleotide-related gene in the tissue suspected of being diseased compared with the normal nucleotide sequence suggests a role of the polynucleotide-encoded proteins in the disease, and provides a lead for preparing a therapeutic agent. The nucleotide probes are labeled by a variety of methods, such as radiolabeling, biotinylation, or labeling with fluorescent or chemiluminescent tags, and detected by standard methods known in the art.

Alternatively, polynucleotide-related mRNA in the two tissues is compared. PolyA<sup>+</sup> RNA is isolated from the two tissues as is known in the art. For example, one of skill in the art can readily determine differences in the size or amount of polynucleotide-related mRNA transcripts between the two tissues using Northern blots and nucleotide probes selected from the nucleotide sequence shown in the Sequence Listing. Increased or decreased expression of an polynucleotide-related mRNA in a tissue sample suspected of being diseased, compared with the expression of

the same polynucleotide-related mRNA in a normal tissue, suggests that the expressed protein has a role in the disease, and also provides a lead for preparing a therapeutic agent.

Any method for analyzing proteins is used to compare two  
5 polynucleotide-encoded proteins from matched samples. The sizes of the proteins in the two tissues are compared, for example, using antibodies of the present invention to detect polynucleotide-encoded proteins in Western blots of protein extracts from the two tissues. Other changes, such as expression levels and subcellular localization, can also be detected immunologically, using antibodies to the corresponding protein. A  
10 higher or lower level of polynucleotide-encoded protein expression in a tissue suspected of being diseased, compared with the same polynucleotide-encoded protein expression level in a normal tissue, is indicative that the expressed protein has a role in the disease, and provides another lead for preparing a therapeutic agent.

Similarly, comparison of polynucleotide gene sequences or of  
15 polynucleotide gene expression products, e.g., mRNA and protein, between a human tissue that is suspected of being diseased and a normal tissue of a human, are used to follow disease progression or remission in the human. Such comparisons of polynucleotide-related genes, mRNA, or protein are made as described above.

For example, increased or decreased expression of the polynucleotide-  
20 related gene in the tissue suspected of being neoplastic can indicate the presence of neoplastic cells in the tissue. The degree of increased expression of the polynucleotide gene in the neoplastic tissue relative to expression of the gene in normal tissue, or differences in the amount of increased expression of the polynucleotide gene in the neoplastic tissue over time, is used to assess the progression of the neoplasia in that  
25 tissue or to monitor the response of the neoplastic tissue to a therapeutic protocol over time. The expression pattern of any two cell types can be compared, such as low and high metastatic tumor cell lines, or cells from tissue which have and have not been exposed to a therapeutic agent.



Screening for Peptide Analogs and Antagonists

Polypeptides encoded by the instant polynucleotides and corresponding full length genes can be used to screen peptide libraries to identify binding partners, such as receptors, from among the encoded polypeptides.

5           Such binding partners can be useful in treating cancer, tumor progression, hyperproliferative cell growth, and/or accompanying biological or physical manifestations. For example, peptides or other compounds that are capable of binding or interacting with membrane-bound polypeptides encoded by one or more of SEQ ID NO:1-339, can be useful as a therapeutic. Also, peptides or other compounds capable of  
10 altering the conformation of any of the encoded polypeptides by one or more of SEQ ID NO:1-339 can inhibit biological activity and be useful as a therapeutic.

A library of peptides may be synthesized following the methods disclosed in U.S. Pat. No. 5,010,175, and in PCT WO91/17823.

Peptide agonists or antagonists are screened using any available method,  
15 such as signal transduction, antibody binding, receptor binding, mitogenic assays, chemotaxis assays, etc. The methods described herein are presently preferred. The assay conditions ideally should resemble the conditions under which the native activity is exhibited *in vivo*, that is, under physiologic pH, temperature, and ionic strength. Suitable agonists or antagonists will exhibit strong inhibition or enhancement of the  
20 native activity at concentrations that do not cause toxic side effects in the subject. Agonists or antagonists that compete for binding to the native polypeptide may require concentrations equal to or greater than the native concentration, while inhibitors capable of binding irreversibly to the polypeptide may be added in concentrations on the order of the native concentration.

25           The end results of such screening and experimentation will be at least one novel polypeptide binding partner, such as a receptor, encoded by a cDNA polynucleotide or gene of the invention, and at least one peptide agonist or antagonist of the novel binding partner. Such agonists and antagonists can be used to modulate, enhance, or inhibit receptor function in cells to which the receptor is native, or in cells  
30 that possess the receptor as a result of genetic engineering. Further, if the novel receptor shares biologically important characteristics with a known receptor,

information about agonist/antagonist binding may help in developing improved agonists/antagonists of the known receptor.

Therapeutics, whether polynucleotide or polypeptide or small molecule, can be tested, for example, in the mouse tumor assay described in Pei *et al.*, Mol. Endo. 11: 433-441 (1997).

Other models for testing polynucleotides, polypeptides, antibodies, or small molecules useful for treatment include: animal models and cell lines disclosed in Bosland, *Encyclopedia of Cancer*, Volume II, pages 1283 to 1296 (1997) by Academic Press. Other useful cell lines are described in Brothman, *Encyclopedia of Cancer*, Volume II, pages 1303 to 1313 (1997) by Academic Press

#### Pharmaceutical Compositions and Therapeutic Uses

Pharmaceutical compositions can comprise polypeptides, antibodies, or polynucleotides of the claimed invention. The pharmaceutical compositions will comprise a therapeutically effective amount of either polypeptides, antibodies, or polynucleotides of the claimed invention.

The term "therapeutically effective amount" as used herein refers to an amount of a therapeutic agent to treat, ameliorate, or prevent a desired disease or condition, or to exhibit a detectable therapeutic or preventative effect. The effect can be detected by, for example, chemical markers or antigen levels. Therapeutic effects also include reduction in physical symptoms, such as decreased body temperature. The precise effective amount for a subject will depend upon the subject's size and health, the nature and extent of the condition, and the therapeutics or combination of therapeutics selected for administration. Thus, it is not useful to specify an exact effective amount in advance. However, the effective amount for a given situation can be determined by routine experimentation and is within the judgment of the clinician. Specifically, the compositions of the present invention can be used to treat, ameliorate, modulate, or prevent cancer, tumor progression, hyperproliferative cell growth and/or accompanying biological or physical manifestations, including prostatic disorders.

For purposes of the present invention, an effective dose will be from about 0.01 mg/kg to 50 mg/kg or 0.05 mg/kg to about 10 mg/kg of the polynucleotide, polypeptide or antibody compositions in the individual to which it is administered.

A pharmaceutical composition can also contain a pharmaceutically acceptable carrier. The term "pharmaceutically acceptable carrier" refers to a carrier for administration of a therapeutic agent, such as antibodies or a polypeptide, genes, and other therapeutic agents. The term refers to any pharmaceutical carrier that does not itself induce the production of antibodies harmful to the individual receiving the composition, and which may be administered without undue toxicity. Suitable carriers may be large, slowly metabolized macromolecules such as proteins, polysaccharides, polylactic acids, polyglycolic acids, polymeric amino acids, amino acid copolymers, and inactive virus particles. Such carriers are well known to those of ordinary skill in the art.

Pharmaceutically acceptable salts can be used therein, for example, mineral acid salts such as hydrochlorides, hydrobromides, phosphates, sulfates, and the like; and the salts of organic acids such as acetates, propionates, malonates, benzoates, and the like. A thorough discussion of pharmaceutically acceptable excipients is available in *Remington's Pharmaceutical Sciences* (Mack Pub. Co., N.J. 1991).

Pharmaceutically acceptable carriers in therapeutic compositions may contain liquids such as water, saline, glycerol and ethanol. Additionally, auxiliary substances, such as wetting or emulsifying agents, pH buffering substances, and the like, may be present in such vehicles. Typically, the therapeutic compositions are prepared as injectables, either as liquid solutions or suspensions; solid forms suitable for solution in, or suspension in, liquid vehicles prior to injection may also be prepared. Liposomes are included within the definition of a pharmaceutically acceptable carrier.

#### Delivery Methods

Once formulated, the polynucleotide compositions of the invention can be (1) administered directly to the subject; (2) delivered ex vivo, to cells derived from the subject; or (3) delivered in vitro for expression of recombinant proteins.

Direct delivery of the compositions will generally be accomplished by injection, either subcutaneously, intraperitoneally, intravenously or intramuscularly, or delivered to the interstitial space of a tissue. The compositions can also be administered into a tumor or lesion. Other modes of administration include oral and pulmonary administration, suppositories, and transdermal applications, needles, and gene guns or hyposprays. Dosage treatment may be a single dose schedule or a multiple dose schedule.

Methods for the ex vivo delivery and reimplantation of transformed cells into a subject are known in the art and described in e.g., International Publication No. WO 93/14778. Examples of cells useful in ex vivo applications include, for example, stem cells, particularly hematopoietic, lymph cells, macrophages, dendritic cells, or tumor cells.

Generally, delivery of nucleic acids for both ex vivo and in vitro applications can be accomplished by, for example, dextran-mediated transfection, calcium phosphate precipitation, polybrene mediated transfection, protoplast fusion, electroporation, encapsulation of the polynucleotide(s) in liposomes, and direct microinjection of the DNA into nuclei, all well known in the art.

If a polynucleotide-related gene correlates with a proliferative disorder, such as neoplasia, dysplasia, and hyperplasia, the disorder may be amenable to treatment by administration of a therapeutic agent based on the polynucleotide or corresponding polypeptide.

Preparation of antisense polypeptides is discussed above. Neoplasias that are treated with the antisense composition include, but are not limited to, cervical cancers, melanomas, colorectal adenocarcinomas, Wilms' tumor, retinoblastoma, sarcomas, myosarcomas, lung carcinomas, leukemias, such as chronic myelogenous leukemia, promyelocytic leukemia, monocytic leukemia, and myeloid leukemia, and lymphomas, such as histiocytic lymphoma. Proliferative disorders that are treated with the therapeutic composition include disorders such as anhydric hereditary ectodermal dysplasia, congenital alveolar dysplasia, epithelial dysplasia of the cervix, fibrous dysplasia of bone, and mammary dysplasia. Hyperplasias, for example, endometrial, adrenal, breast, prostate, or thyroid hyperplasias or pseudoepitheliomatous hyperplasia

of the skin, are treated with antisense therapeutic compositions. Even in disorders in which mutations in the corresponding gene are not implicated, downregulation or inhibition of gene expression can have therapeutic application. For example, decreasing gene expression can help to suppress tumors in which enhanced expression of the gene is implicated.

Both the dose of the antisense composition and the means of administration are determined based on the specific qualities of the therapeutic composition, the condition, age, and weight of the patient, the progression of the disease, and other relevant factors. Administration of the therapeutic antisense agents of the invention includes local or systemic administration, including injection, oral administration, particle gun or catheterized administration, and topical administration. Preferably, the therapeutic antisense composition contains an expression construct comprising a promoter and a polynucleotide segment of at least 12, 22, 25, 30, or 35 contiguous nucleotides of the antisense strand. Within the expression construct, the polynucleotide segment is located downstream from the promoter, and transcription of the polynucleotide segment initiates at the promoter.

Various methods are used to administer the therapeutic composition directly to a specific site in the body. For example, a small metastatic lesion is located and the therapeutic composition injected several times in several different locations within the body of tumor. Alternatively, arteries which serve a tumor are identified, and the therapeutic composition injected into such an artery, in order to deliver the composition directly into the tumor. A tumor that has a necrotic center is aspirated and the composition injected directly into the now empty center of the tumor. The antisense composition is directly administered to the surface of the tumor, for example, by topical application of the composition. X-ray imaging is used to assist in certain of the above delivery methods.

Receptor-mediated targeted delivery of therapeutic compositions containing an antisense polynucleotide, subgenomic polynucleotides, or antibodies to specific tissues is also used. Receptor-mediated DNA delivery techniques are described in, for example, Findeis *et al.*, *Trends in Biotechnol.* (1993) 11:202-205; Chiou *et al.*, (1994) *Gene Therapeutics: Methods And Applications Of Direct Gene Transfer* (J.A.

Wolff, ed.); Wu & Wu, *J. Biol. Chem.* (1988) 263:621-24; Wu *et al.*, *J. Biol. Chem.* (1994) 269:542-46; Zenke *et al.*, *Proc. Natl. Acad. Sci. (USA)* (1990) 87:3655-59; Wu *et al.*, *J. Biol. Chem.* (1991) 266:339-42. Preferably, receptor-mediated targeted delivery of therapeutic compositions containing antibodies of the invention is used to  
5 deliver the antibodies to specific tissue.

Therapeutic compositions containing antisense subgenomic polynucleotides are administered in a range of about 100 ng to about 200 mg of polynucleotides for local administration in a gene therapy protocol. Concentration ranges of about 500 ng to about 50 mg, about 1  $\mu$ g to about 2 mg, about 5  $\mu$ g to about  
10 500  $\mu$ g, and about 20  $\mu$ g to about 100  $\mu$ g of polynucleotides can also be used during a gene therapy protocol. Factors such as method of action and efficacy of transformation and expression are considerations which will affect the dosage required for ultimate efficacy of the antisense subgenomic polynucleotides. Where greater expression is desired over a larger area of tissue, larger amounts of EST antisense subgenomic  
15 polynucleotides or the same amounts readministered in a successive protocol of administrations, or several administrations to different adjacent or close tissue portions of, for example, a tumor site, may be required to effect a positive therapeutic outcome. In all cases, routine experimentation in clinical trials will determine specific ranges for optimal therapeutic effect. A more complete description of gene therapy vectors,  
20 especially retroviral vectors, is contained in U.S. Serial No. 08/869,309, which is expressly incorporated herein, and in section G below.

For genes encoding polypeptides or proteins with anti-inflammatory activity, suitable use, doses, and administration are described in U.S. Patent No. 5,654,173, incorporated herein by reference. Therapeutic agents also include antibodies  
25 to proteins and polypeptides, as described in U.S. Patent No. 5,654,173.

#### Gene Therapy

The therapeutic polynucleotides and polypeptides of the present invention may be utilized in gene delivery vehicles. The gene delivery vehicle may be of viral or non-viral origin (see generally, Jolly, *Cancer Gene Therapy* (1994) 1:51-64; Kimura, *Human Gene Therapy* (1994) 5:845-852; Connelly, *Human Gene Therapy*  
30

(1995) 1:185-193; and Kaplitt, *Nature Genetics* (1994) 6:148-153). Gene therapy vehicles for delivery of constructs including a coding sequence of a therapeutic of the invention can be administered either locally or systemically. These constructs can utilize viral or non-viral vector approaches. Expression of such coding sequences can  
5 be induced using endogenous mammalian or heterologous promoters. Expression of the coding sequence can be either constitutive or regulated.

The present invention can employ recombinant retroviruses which are constructed to carry or express a selected nucleic acid molecule of interest. Retrovirus vectors that can be employed include those described in EP 0 415 731; WO 90/07936;  
10 WO 94/03622; WO 93/25698; WO 93/25234; U.S. Patent No. 5, 219,740; WO 93/11230; WO 93/10218; Vile and Hart, *Cancer Res.* (1993) 53:3860-3864; Vile and Hart, *Cancer Res.* (1993) 53:962-967; Ram et al., *Cancer Res.* (1993) 53:83-88; Takamiya et al., *J. Neurosci. Res.* (1992) 33:493-503; Baba et al., *J. Neurosurg.* (1993) 79:729-735; U.S. Patent no. 4,777,127; GB Patent No. 2,200,651; and EP 0 345 242.  
15 Preferred recombinant retroviruses include those described in WO 91/02805.

Packaging cell lines suitable for use with the above-described retroviral vector constructs may be readily prepared (see PCT publications WO 95/30763 and WO 92/05266), and used to create producer cell lines (also termed vector cell lines) for the production of recombinant vector particles. Within particularly preferred embodiments  
20 of the invention, packaging cell lines are made from human (such as HT1080 cells) or mink parent cell lines, thereby allowing production of recombinant retroviruses that can survive inactivation in human serum.

The present invention also employs alphavirus-based vectors that can function as gene delivery vehicles. Such vectors can be constructed from a wide variety  
25 of alphaviruses, including, for example, Sindbis virus vectors, Semliki forest virus (ATCC VR-67; ATCC VR-1247), Ross River virus (ATCC VR-373; ATCC VR-1246) and Venezuelan equine encephalitis virus (ATCC VR-923; ATCC VR-1250; ATCC VR 1249; ATCC VR-532). Representative examples of such vector systems include those described in U.S. Patent Nos. 5,091,309; 5,217,879; and 5,185,440; and PCT  
30 Publication Nos. WO 92/10578; WO 94/21792; WO 95/27069; WO 95/27044; and WO 95/07994.

Gene delivery vehicles of the present invention can also employ parvovirus such as adeno-associated virus (AAV) vectors. Representative examples include the AAV vectors disclosed by Srivastava in WO 93/09239, Samulski et al., *J. Vir.* (1989) 63:3822-3828; Mendelson et al., *Virology* (1988) 166:154-165; and Flotte et al., *PNAS* (1993) 90:10613-10617.

Representative examples of adenoviral vectors include those described by Berkner, *Biotechniques* (1988) 6:616-627; Rosenfeld et al., *Science* (1991) 252:431-434; WO 93/19191; Kolls et al., *PNAS* (1994) 91:215-219; Kass-Eisler et al., *PNAS* (1993) 90:11498-11502; Guzman et al., *Circulation* (1993) 88:2838-2848; Guzman et al., *Cir. Res.* (1993) 73:1202-1207; Zabner et al., *Cell* (1993) 75:207-216; Li et al., *Hum. Gene Ther.* (1993) 4:403-409; Cailaud et al., *Eur. J. Neurosci.* (1993) 5:1287-1291; Vincent et al., *Nat. Genet.* (1993) 5:130-134; Jaffe et al., *Nat. Genet.* (1992) 1:372-378; and Levrero et al., *Gene* (1991) 101:195-202. Exemplary adenoviral gene therapy vectors employable in this invention also include those described in WO 94/12649, WO 93/03769; WO 93/19191; WO 94/28938; WO 95/11984 and WO 95/00655. Administration of DNA linked to killed adenovirus as described in Curiel, *Hum. Gene Ther.* (1992) 3:147-154 may be employed.

Other gene delivery vehicles and methods may be employed, including polycationic condensed DNA linked or unlinked to killed adenovirus alone, for example Curiel, *Hum. Gene Ther.* (1992) 3:147-154; ligand linked DNA, for example see Wu, *J. Biol. Chem.* (1989) 264:16985-16987; eukaryotic cell delivery vehicles cells, for example see U.S. Serial No. 08/240,030, filed May 9, 1994, and U.S. Serial No. 08/404,796; deposition of photopolymerized hydrogel materials; hand-held gene transfer particle gun, as described in U.S. Patent No. 5,149,655; ionizing radiation as described in U.S. Patent No. 5,206,152 and in WO92/11033; nucleic charge neutralization or fusion with cell membranes. Additional approaches are described in Philip, *Mol. Cell Biol.* (1994) 14:2411-2418, and in Woffendin, *Proc. Natl. Acad. Sci.* (1994) 91:1581-1585.

Naked DNA may also be employed. Exemplary naked DNA introduction methods are described in WO 90/11092 and U.S. Patent No. 5,580,859.



Further non-viral delivery suitable for use includes mechanical delivery systems such as the approach described in Woffendin *et al.*, *Proc. Natl. Acad. Sci. USA* (1994) 91(24):11581-11585.

#### Computer-Related Embodiments

5           In general, a library of polynucleotides is a collection of sequence information, which information is provided in either biochemical form (*e.g.*, as a collection of polynucleotide molecules), or in electronic form (*e.g.*, as a collection of polynucleotide sequences stored in a computer-readable form, as in a computer system and/or as part of a computer program). The sequence information of the  
10 polynucleotides can be used in a variety of ways, *e.g.*, as a resource for gene discovery, as a representation of sequences expressed in a selected cell type (*e.g.*, cell type markers), and/or as markers of a given disease or disease state. In general, a disease marker is a representation of a gene product that is present in all cells affected by disease either at an increased or decreased level relative to a normal cell (*e.g.*, a cell of  
15 the same or similar type that is not substantially affected by disease).

The nucleotide sequence information of the library can be embodied in any suitable form, *e.g.*, electronic or biochemical forms. For example, a library of sequence information embodied in electronic form comprises an accessible computer data file (or, in biochemical form, a collection of nucleic acid molecules) that contains  
20 the representative nucleotide sequences of genes that are differentially expressed (*e.g.*, overexpressed or underexpressed) as between, for example, a cancerous cell and a normal cell. Biochemical embodiments of the library include a collection of nucleic acids that have the sequences of the genes in the library, where the nucleic acids can correspond to the entire gene in the library or to a fragment thereof, as described in  
25 greater detail below.

The polynucleotide libraries of the subject invention generally comprise sequence information of a plurality of polynucleotide sequences, where at least one of the polynucleotides has a sequence of any of SEQ ID NOs:1-339. By plurality is meant at least 2, usually at least 3 and can include up to all of SEQ ID NOs:1-339. The length  
30 and number of polynucleotides in the library will vary with the nature of the library,

*e.g.*, if the library is an oligonucleotide array, a cDNA array, a computer database of the sequence information, etc.

Where the library is an electronic library, the nucleic acid sequence information can be present in a variety of media. "Media" refers to a manufacture, other than an isolated nucleic acid molecule, that contains the sequence information of the present invention. Such a manufacture provides the genome sequence or a subset thereof in a form that can be examined by means not directly applicable to the sequence as it exists in a nucleic acid. For example, the nucleotide sequence of the present invention, *e.g.*, the nucleic acid sequences of any of the polynucleotides of SEQ ID NOs:1-339, can be recorded on computer readable media, *e.g.*, any medium that can be read and accessed directly by a computer. Such media include, but are not limited to: magnetic storage media, such as a floppy disc, a hard disc storage medium, and a magnetic tape; optical storage media such as CD-ROM; electrical storage media such as RAM and ROM; and hybrids of these categories such as magnetic/optical storage media. One of skill in the art can readily appreciate how any of the presently known computer readable mediums can be used to create a manufacture comprising a recording of the present sequence information. "Recorded" refers to a process for storing information on computer readable medium, using any such methods as known in the art. Any convenient data storage structure can be chosen, based on the means used to access the stored information. A variety of data processor programs and formats can be used for storage, *e.g.*, word processing text file, database format, *etc.* In addition to the sequence information, electronic versions of the libraries of the invention can be provided in conjunction or connection with other computer-readable information and/or other types of computer-readable files (*e.g.*, searchable files, executable files, *etc.*, including, but not limited to, for example, search program software, *etc.*).

By providing the nucleotide sequence in computer readable form, the information can be accessed for a variety of purposes. Computer software to access sequence information is publicly available. For example, the BLAST (Altschul et al., *supra.*) and BLAZE (Brutlag et al. *Comp. Chem.* (1993) 17:203) search algorithms on a Sybase system can be used to identify open reading frames (ORFs) within the genome that contain homology to ORFs from other organisms.

As used herein, "a computer-based system" refers to the hardware means, software means, and data storage means used to analyze the nucleotide sequence information of the present invention. The minimum hardware of the computer-based systems of the present invention comprises a central processing unit (CPU), input means, output means, and data storage means. A skilled artisan can readily appreciate that any one of the currently available computer-based system are suitable for use in the present invention. The data storage means can comprise any manufacture comprising a recording of the present sequence information as described above, or a memory access means that can access such a manufacture.

10 "Search means" refers to one or more programs implemented on the computer-based system, to compare a target sequence or target structural motif, or expression levels of a polynucleotide in a sample, with the stored sequence information. Search means can be used to identify fragments or regions of the genome that match a particular target sequence or target motif. A variety of known algorithms are publicly known and commercially available, *e.g.*, MacPattern (EMBL), BLASTN and BLASTX (NCBI). A "target sequence" can be any polynucleotide or amino acid sequence of six or more contiguous nucleotides or two or more amino acids, preferably from about 10 to 100 amino acids or from about 30 to 300 nt. A variety of comparing means can be used to accomplish comparison of sequence information from a sample (*e.g.*, to analyze target sequences, target motifs, or relative expression levels) with the data storage means. A skilled artisan can readily recognize that any one of the publicly available homology search programs can be used as the search means for the computer based systems of the present invention to accomplish comparison of target sequences and motifs. Computer programs to analyze expression levels in a sample and in controls are also known in the art.

A "target structural motif," or "target motif," refers to any rationally selected sequence or combination of sequences in which the sequence(s) are chosen based on a three-dimensional configuration that is formed upon the folding of the target motif, or on consensus sequences of regulatory or active sites. There are a variety of target motifs known in the art. Protein target motifs include, but are not limited to, enzyme active sites and signal sequences. Nucleic acid target motifs include, but are

not limited to, hairpin structures, promoter sequences and other expression elements such as binding sites for transcription factors.

A variety of structural formats for the input and output means can be used to input and output the information in the computer-based systems of the present invention. One format for an output means ranks the relative expression levels of different polynucleotides. Such presentation provides a skilled artisan with a ranking of relative expression levels to determine a gene expression profile..

As discussed above, the "library" of the invention also encompasses biochemical libraries of the polynucleotides of SEQ ID NOs:1-339, *e.g.*, collections of nucleic acids representing the provided polynucleotides. The biochemical libraries can take a variety of forms, *e.g.*, a solution of cDNAs, a pattern of probe nucleic acids stably associated with a surface of a solid support (*i.e.*, an array) and the like. Of particular interest are nucleic acid arrays in which one or more of SEQ ID NOs:1-339 is represented on the array. By array is meant an article of manufacture that has at least a substrate with at least two distinct nucleic acid targets on one of its surfaces, where the number of distinct nucleic acids can be considerably higher, typically being at least 10 nt, usually at least 20 nt and often at least 25 nt. A variety of different array formats have been developed and are known to those of skill in the art. The arrays of the subject invention find use in a variety of applications, including gene expression analysis, drug screening, mutation analysis and the like, as disclosed in the above-listed exemplary patent documents.

In addition to the above nucleic acid libraries, analogous libraries of polypeptides are also provided, where the polypeptides of the library will represent at least a portion of the polypeptides encoded by SEQ ID NOs:1-339.

The present invention will now be illustrated by reference to the following examples which set forth particularly advantageous embodiments. However, it should be noted that these embodiments are illustrative and are not to be construed as restricting the invention in any way.

## EXAMPLES

### EXAMPLE 1

#### ISOLATION OF THE POLYNUCLEOTIDES

cDNA libraries were prepared from PrEC, normal human prostate  
5 epithelial cells, and LNCaP, a cell line derived from human lymph node metastasized  
prostate cancer. PrEC cells are available from Clonetics, San Diego, California, U.S.A.  
LNCaP cells are available from the ATCC, Manassas, Virginia, U.S.A.

Using a PCR technique and reagents available from Clontech, Palo Alto,  
California, USA (CLONTECH PCR-Select™), mRNA up-regulated in LNCaP was  
10 captured and amplified. The captured polynucleotide inserts were inserted in the  
pCR2.1 vector, available from Invitrogen, Carlsbad, California, U.S.A. The vectors  
with the inserts were transformed into *E. coli* cells.

### EXAMPLE 2

#### CONFIRMATION OF DIFFERENTIAL DISPLAY

15 Ten clones were chosen at random, and up-regulation of the sequences of  
these clone inserts in LNCaP versus PrEC cells was confirmed by Northern blot. Dot  
blots were performed on 168 clones and up-regulation was confirmed.

Further, sequencing of the clones showed that prostate specific antigen  
(PSA) and prostate specific membrane antigen (PSMA) sequences were isolated by the  
20 process described in Example 1. A good correlation between increased serum PSA  
levels and prostate tumors has been observed. PSMA, a cell surface antigen, is another  
observed marker for prostate cancer. See Bosland, Encyclopedia of Cancer, Volume II,  
pages 1283-1296 (1997), Academic Press. Thus, the data confirm that up-regulated  
mRNA characteristic of gene expression in prostate cancer was cloned by the method of  
25 Example 1.

## EXAMPLE 3

## POLYNUCLEOTIDE SEQUENCES

The sequence results are shown in SEQ ID NO:1-339. For the sequencing experiments, each clone was named SL-1 to SL-209. Inserts from some of the clones were sequenced more than once. Each sequence was designated a unique combination of two names. This unique combination is shown in Table 1 in columns 2 and 3, denoted as "Sequence Name" and "Other Seq Name."

Table 1 indicates all the sequences that correspond to each clone. Thus, all the sequences corresponding to clone SL-3, for example, are grouped together in Table 1.

Clones also were assigned cluster numbers. See column 4 of Table 1. Clones with the same cluster number generally comprise sequence derived from the same mRNA transcripts.

The last column of Table 1 indicates the nearest neighbor as determined by an alignment to sequences in a publicly available database.

A consensus for the sequence of each clone can be constructed by aligning the corresponding sequences or reverse complements thereof. Table 1 lists the names of all the sequences that correspond to each clone, and Table 2 shows the specific sequence that corresponds to each unique combination of Sequence Name and/or "Other Seq. Name."

The entire insert of some clones may not be represented by the sequences presented in Table 2. For example, the 5' and 3' ends of a clone insert may have been sequenced, but the sequences do not overlap. Additional sequence corresponding to the clone insert can be isolated and determined by constructing probes or primers from the sequences presented in Table 2 and a library of mRNA or cDNA from a prostate cell or prostate cancer cell line using the methods described above.

## EXAMPLE 4

## RESULTS OF PUBLIC DATABASE SEARCH

Both the nucleotide sequence and translations of masked sequences shown in the Sequence Listing were aligned with individual sequences that were publicly available. Similarity with individual sequences is used to determine the activity of the polypeptides encoded by genes corresponding to the sequences referred to in Table 2.

The sequences in SEQ ID NO:1-333 first were masked to remove the pCR2.1 vector sequences. Masking was performed by aligning the pCR2.1 sequences with each of SEQ ID NO:1-333 using the BLASTN program. Any sequence that produced an alignment with a score of less than 0.1 was masked.

A BLASTN vs. Genbank search was performed using the masked sequences with search parameters of greater than 99% overlap, 99% identity, and a p value of less than  $1 \times 10^{-40}$  and this resulted in discard of sequences. Sequences from this search also were discarded if the inclusive parameters were met, but the sequence was ribosomal or vector-derived.

The resulting sequences from the previous search were classified into three groups (1, 2 and 3 below) and searched in a BLASTX vs. NRP (non-redundant proteins) database search: (1) unknown (no hits in the Genbank search), (2) weak similarity (greater than 45% identity and p value of less than  $1 \times 10^{-5}$ ), and (3) high similarity (greater than 60% overlap, greater than 80% identity, and p value less than  $1 \times 10^{-5}$ ). This search resulted in discard of sequences as having greater than 99% overlap, greater than 99% identity, and p value of less than  $1 \times 10^{-40}$ .

The remaining sequences were classified as unknown (no hits), weak similarity, and high similarity (parameters as above). Two searches were performed on this set of sequences. First, a BLAST vs. EST database search resulted in discard of sequences with greater than 99% overlap, greater than 99% similarity and a p value of less than  $1 \times 10^{-40}$ ; sequences with a p value of less than  $1 \times 10^{-65}$  when compared to a database sequence of human origin were also excluded. Second, a BLASTN vs. Patent

GeneSeq database resulted in discard of sequences with greater than 99% identity; p value less than  $1 \times 10^{-40}$ ; greater than 99% overlap.

The masked sequences were translated in all six reading frames to determine the best alignment with the individual sequences. These amino acid sequences and nucleotide sequences are referred, generally, as query sequences, which  
5 are aligned with the individual sequences.

Query and individual sequences were aligned using the BLAST programs, available over the world wide web.

Table 2 shows the results of the alignments. Table 2 refers to each  
10 sequence by its Sequence Name and/or "Other Seq. Name" and includes the accession numbers and descriptions of nearest neighbors from the Genbank and Non-Redundant Protein searches.

The activity of the polypeptide encoded by the sequences referred to in Table 2 is expected to be the same or similar to the nearest neighbor reported in Table 2.  
15 The accession number of the nearest neighbor is reported, providing a reference to the activities exhibited by the nearest neighbor. The search program and database used for the alignment also are indicated as well as a calculation of the p value.

Full length sequences or fragments of the polynucleotide sequences of the nearest neighbors can be used as probes and primers to identify and isolate the full  
20 length sequence corresponding to sequence referred to in Table 2. Although full length sequences can be obtained from the cell lines described above, the nearest neighbors can indicate a tissue or cell type to be used to construct a library for the full-length sequences of those referred to in Table 2.

The sequences referred to in Table 2 and the translations thereof may be  
25 human homologs of known genes of other species or novel allelic variants of known human genes. In such cases, these new human sequences may be suitable as diagnostics, prognostics, or therapeutics. As diagnostics, the human sequences exhibit greater specificity in detecting and differentiating human cell lines and types than homologs of other species. The human polypeptides are less likely to be immunogenic  
30 when administered to humans than homologs from other species. Further, on



administration to humans, the encoded polypeptides can show greater specificity or can be better regulated by other human proteins than are homologs from other species.

In the preferred embodiments of the invention, the sequences shown in SEQ ID NO:1-339 consisting of the unmasked regions should be considered as the source of probes and primers, as these sequences are most representative of the distinguishing portions of these polynucleotides.

Generally, the masking itself does not influence the search results as shown in Table 2, except to eliminate multiple "hits" based on similarity to repetitive regions common to more than one polypeptide.

10

## EXAMPLE 5

## ANALYSIS OF CLONES SL-5, SL-9, SL-68, AND SL-173

## Clone SL-5 (SEQ ID NO:14 and 334)

By Northern Blot, a 4.1 kb band was observed in expressed in normal prostate, testis, and lymphoblastic leukemia. It was also expressed in the cell lines LNCaP, and MDA PCa 2A and 2B (metastatic prostate cells into bone, androgen sensitive). Additional sequence corresponding to SEQ ID NO:14 is disclosed in SEQ ID NO:334.

Expression of SL-5 was investigated in normal and tumor tissues using immunohistochemistry. Antibody was prepared using two sequences from clone SL-5: H<sub>2</sub>N-CGPRLPSFPCPTHEPSTGQLSK-CONH<sub>2</sub> and H<sub>2</sub>N-CKDSQGLSDFKRNSRTTR-RSYKCCONH<sub>2</sub>. Using polyclonal antibodies raised against a mixture of these polypeptides, immunohistochemistry (IHC) was performed on a variety of tumor tissues and corresponding normal tissue. The methods used were those described for the Manual IHC Protocol using BioGenex Reagents and Zymed AEC Solution, as known in the art. As shown in Figure 3, SL-5 was detected in the following tumor tissue: adrenal, ovary, breast, colon, prostate, uterus, cervix, kidney, pancreas, liver, stomach, lymphoma, seminoma, thyroid, melanoma, basal cell carcinoma, and other tumor tissues. Where comparative normal tissue was available, expression in the

corresponding normal tissue was lower than in the tumor tissue. Thus, SL-5 is a useful marker for cancer tissue including prostate.

Clone SL-9 (SEQ ID NO:18)

By Northern Blot, sequences from SL-9 were specifically expressed in  
5 normal spleen and normal peripheral blood leukocyte. Expression of the SL-9 sequences was observed also in promyelocytic leukemia HL-60, chronic myelogenous leukemia K-562, lymphoblastic leukemia MOLT-4, Burkitt's lymphoma, and Raji cancer cell lines by Northern Blot.

Clone SL-173 (SEQ ID NO:153 and 154)

10 By Northern Blot, SL173 was found in every cancer cell line tested. Sequence from SL-173 has similarity to and may be a human homologue of the rat tumor transforming gene, which was found in the pituitary and described in Pei *et al.*, Mol. Endo. 11: 433-441 (1997) and Pei, J. Biol. Chem. 273(9): 5219-5225 (1998). When the rat tumor transforming gene was injected in NIH3T3cells, the cells became  
15 transformed and were able to form a tumor when injected into mice. (Pei *et al.*, Mol. Endo. *supra*).

Clone SL-68 (SEQ ID NO:218 and 219)

Two transcripts, 2.6kb and 4.3kb, were observed in normal spleen, thymus and peripheral blood leukocytes, as well as in promyelocytic leukemia, chronic  
20 myelogenous leukemia and lymphoblastic leukemia. The 4.3kb transcript was seen in normal testis, colon, Hela cell S3, colorectal adenocarcinoma and melanoma. The 2.6kb band was found in the following prostate cell lines: PC-3 (metastatic to bone, androgen insensitive); DU-145 (metastatic to brain, androgen insensitive); FFpz (primary cells derived from normal prostate epithelium); Ffca (primary cells derived  
25 from Gleason Grade 3 prostate cancer epithelium); and WO-CA (primary cells derived from Gleason Grade 4 prostate cancer epithelium). However, higher expression was observed in LNCaP, MDA PCa 2A, HPV-7 and HPV-10. A 9.5kb transcript was also observed in MDA PCa 2A and 2B. Additional sequence corresponding to this clone is disclosed in SEQ ID NO:335.

## Clone SL69 (SEQ ID NO:220 and 221)

A weak 2.6kb band was observed in normal testis as well as in chronic myelogenous leukemia and lymphoblastic leukemia. Additional sequence corresponding to this clone is disclosed in SEQ ID NO:336.

5

## Clone SL86 (SEQ ID NO:242 and 243)

The sequence was expressed in normal prostate (2.7kb and 1.1kb) and testis (1.1kb). Low expression was observed in a cancer cell line blot using the cell lines described above. 1.1kb and 2.7kb transcripts were observed in the cell lines  
10 LNCaP, and MDA PCa 2a and 2b (metastatic prostate cells into bone, androgen sensitive), and weak 1.1kb transcript was seen in HPV-7 (immortalized normal prostate cells) and HPV-10 (immortalized prostate cancer cells). Additional sequence corresponding to this clone is disclosed in SEQ ID NO:337.

## 15 Clone SL195 (SEQ ID NO:288 and 289)

The sequence was expressed in normal prostate as a 1.9kb transcript, and the same transcript also observed in all cell lines in the cancer cell line blot described above. It was more heavily expressed in HeLa cell S3 and chronic myelogenous leukemia, and was expressed in all prostate cell lines. Additional sequence  
20 corresponding to this clone is disclosed in SEQ ID NO:338.

## Clone SL197 (SEQ ID NO:292 and 293)

Two transcripts, 2.4kb and 4kb, were observed in normal prostate and testis. Two very weak 2.4kb signals were observed in Hela cell S3 and chronic  
25 myelogenous leukemia. The 2.4kb transcript was expressed in all prostate cell lines. A 4kb transcript was found in LNCaP, MDA PCa 2A and 2B. Additional sequence corresponding to this clone is disclosed in SEQ ID NO:339.

Those skilled in the art will recognize, or be able to ascertain, using not  
30 more than routine experimentation, many equivalents to the specific embodiments of

the invention described herein. Such specific embodiments and equivalents are intended to be encompassed by the following claims.

All patents, published patent applications and publications cited herein are incorporated by reference as if set forth fully herein.

TABLE I

PATENT

Clone #	Sequence Name	Other Seq Name	Clone # Cluster #	Nearest Neighbor If Available
SL-001	SL001 SL001M13	19sl1	SL-001	S60754 (VNTR locus DXZ4)
SL-002	SL002	20sl2	SL-002	L07935 HUMVNTRA
SL-003	SL003	21sl3	SL-003	AB006625 - KIAA0287 gene
SL-004	SL003	35-sl3-1m13	SL-004	
	SL003	35-sl3-1t7		
	SL003	37-sl3-1m13		
	SL003	39-sl3-1m13		
	SL004	22sl4		
SL-005	SL004M13			
	SL005	23sl5	SL-005	
SL-006	SL005	30sl11b	SL-006	cosmid genomic clone
	SL006	24sl6		
SL-007	SL006M13			
	SL007	25sl7	SL-003	AB006625-KIAA0287
SL-008	SL007	28-sl7-1m13	SL-003	
	SL007	28-sl7-1t7		
	SL007	30-sl7-1m13		
	SL007	30-sl7-1t7		
	SL007	32-sl7-1m13		
	SL007	32-sl7-1t7		
SL-008	SL008	26sl8	SL-008	HUMP65 E=9e-62 L-plastin. Phosphoprotein (p65)
SL-009	SL009	27sl9		
	SL009M13			
SL-010	SL010	28sl10	SL-005	
SL-011	SL011	29sl11a	SL-011	HSU10685 - MAGE-10 Gene
SL-012	SL012	31sl12	SL-011	HSU10685 - MAGE-10 Gene
SL-013	SL013	32sl13		
SL-015	SL015	34sl15	SL-015	HSU90336 - PEG3 mRNA
SL-016	SL015	46-sl15-2m13	SL-016	HSMRNAEN - Enkephalinase
	SL015	47-sl15-2m13		
	SL015	47-sl15-2t7		
	SL016	10-sl16-1m13		
	SL016	10-sl16-1t7		
	SL016	11-sl16-1m13		
	SL016	18-sl16-2m13		
	SL016	18-sl16-2t7		
	SL016	19-sl16-2m13		
	SL016	19-sl16-2t7		
	SL016	20-sl16-2m13		
	SL016	20-sl16-2t7		
	SL016	35sl16		

TABLE I

PATENT

	SL016	9-sl16-lt7		
SL-017	SL017	36sl17	SL-017	HUMORF01 - KIAA0101 gene
SL-028	SL028m13	B1	SL-028	
	SL028t7	B1		
SL-029	SL029m13	WE97.C1.M13	SL-029	
	SL029t7	WE97.C1.T7		
SL-032	SL032m13	WE97.D1.M13	SL-032	HSTPI1G TPI1 gene for triosephosphate isomerase.
	SL032t7	WE97.D1.T7		
SL-036	SL036m13	WE97.E1.M13	SL-036	HSU81599 homeodomain protein HOXB13
	SL036t7	WE97.E1.T7		
SL-037	SL037m13	C1	SL-005	
	SL037m13	WE97.F1.M13		
	SL037t7	C1		
SL-040	SL040m13	D1	SL-040	
	SL040t7	D1		
SL-041	SL041m13	E1	SL-016	
	SL041m13	WE97.H1.M13		
	SL041t7	E1		
	SL041t7	WE97.H1.T7		
SL-042	SL042m13	WE97.A2.M13	SL-008	HUMP65 phosphoprotein (p65) HUMPLASTA L-plastin gene
	SL042t7	WE97.A2.T7		
SL-044	SL044m13	WE97.B2.M13	SL-016	
	SL-044t7	WE97.B2.T7		
SL-045	SL045m13	WE97.C2.M13	SL-045	genomic DNA
	SL045t7	WE97.C2.T7		
SL-046	SL046m13	WE97.D2.M13	SL-046	
	SL046t7	WE97.D2.T7		
SL-047	SL047m13	WE97.E2.M13	SL-047	
	SL047t7	WE97.E2.T7		
SL-050	SL050m13	WE97.F2.M13	SL-050	
	SL050t7	WE97.F2.T7		
SL-051	SL051m13	WE97.G2.M13	SL-051	
	SL051t7	WE97.G2.T7		
SL-054	SL054m13	WE97.H2.M13	SL-054	
	SL054t7	WE97.H2.T7		
SL-055	SL055m13	F1	SL-050	
	SL055t7	F1		
	SL055t7	WE97.A3.T7		

TABLE 1

PATENT

SL-057	SL057m13 SL057t7	WE97.C3.M13 WE97.C3.T7	SL-057	
SL-058	SL058m13 SL058t7	WE97.D3.M13 WE97.D3.T7	SL-058	HSLRPR1GN leucine-rich primary response protein 1.
SL-061	SL061m13 SL061t7	WE97.E3.M13 WE97.E3.T7	SL-028	
SL-062	SL062m13 SL062t7	WE97.F3.M13 WE97.F3.T7	SL-028	
SL-064	SL064m13 SL064t7	WE97.G3.M13 WE97.G3.T7	SL-064	
SL-066	SL066m13 SL066t7	WE97.H3.M13 WE97.H3.T7	SL-016	
SL-067	SL067m13 SL067t7 SL067t7	H1 H1 WE97.A4.T7	SL-067	HUMKIAAP - KIAA0095 gene
SL-068	SL068m13 SL068t7	WE97.B4.M13 WE97.B4.T7	SL-068	
SL-069	SL069m13 SL069t7	WE97.C4.M13 WE97.C4.T7	SL-069	
SL-071	SL071m13 SL071t7	WE97.D4.M13 WE97.D4.T7	SL-071	
SL-072	SL072m13 SL072t7	WE97.E4.M13 WE97.E4.T7	SL-015	HSU90336 Human PEG3 mRNA AB006625 KIAA0287
SL-074	SL074m13 SL074t7	WE97.F4.M13 WE97.F4.T7	SL-074	
SL-075	SL075m13 SL075t7	WE97.G4.M13 WE97.G4.T7	SL-075	
SL-076	SL076m13 SL076t7	WE97.H4.M13 WE97.H4.T7	SL-076	
SL-077	SL077m13 SL077t7	WE97.A5.M13 WE97.A5.T7	SL-077	
SL-078	SL078m13 SL078m13 SL078t7	A2 WE97.B5.M13 A2	SL-016	BAC clone (with Alu) AB006625 - KIAA0287 gene
SL-081	SL081m13 SL081t7	WE97.E5.M13 WE97.E5.T7	SL-003	
SL-083	SL083m13 SL083t7	WE97.G5.M13 WE97.G5.T7	SL-083	
SL-084	SL084m13 SL084t7	WE97.H5.M13 WE97.H5.T7	SL-084	(HS295C6 Human DNA sequence)

TABLE 1

PATENT

SL-085	SL085m13	WE97.A6.M13	SL-085	
SL-086	SL086m13	WE97.B6.M13	SL-086	
	SL086t7	WE97.B6.T7		
SL-087	SL087m13	WE97.C6.M13	SL-087	EST and Mus musculus ras-GTPase-activating protein
	SL087t7	WE97.C6.T7		
SL-088	SL088m13	WE97.D6.M13	SL-015	HSU90336 Human PEG3 & AB006625 - KIAA0287 gene
	SL088t7	WE97.D6.T7		
SL-089	SL089m13	WE97.E6.M13	SL-089	
	SL089t7	WE97.E6.T7		
SL-090	SL090m13	D2	SL-090	
	SL090t7	D2		
SL-091	SL091m13	WE97.G6.M13	SL-091	
	SL091t7	WE97.G6.T7		
SL-092	SL092m13	WE97.H6.M13	SL-092	HUMPRKACB testis-specific cAMP-dependent protein kinase catalytic subunit (C-beta isoform)
	SL092t7	WE97.H6.T7		
SL-093	SL093m13	E2	SL-008	HUMLPLSTN2 L-plastin gene
	SL093t7	E2		
SL-094	SL094m13	WE97.B7.M13	SL-094	
	SL094t7	WE97.B7.T7		
SL-095	SL095m13	WE97.C7.M13	SL-003	AB006625 - KIAA0287
	SL095t7	WE97.C7.T7		
SL-096	SL096m13	WE97.D7.M13	SL-096	
	SL096t7	WE97.D7.T7		
SL-097	SL097m13		SL-071	
	SL097t7			
SL-098	SL098m13		SL-098	
	SL098t7			
SL-099	SL099m13		SL-016	
	SL099t7			
SL-100	SL100m13	F2	SL-085	SL100m13 Alu - 2e-71
	SL100m13			
	SL100t7	F2		
	SL100t7			
SL-102	SL102m13		SL-102	HSRPL32 ribosomal protein L32
	SL102t7			
SL-103	SL103m13		SL-103	
	SL103t7			
SL-105	SL105m13		SL-105	
	SL105t7			
SL-106	SL106m13		SL-106	
	SL106t7			
SL-107	SL107m13		SL-016?	SL107m13 -Alu - 2e-78
	SL107t7			
SL-110	SL110m13		SL-003	AB006625 - KIAA0287 gene



TABLE I

PATENT

	SL110t7			
SL-111	SL111m13 SL111t7		SL-111	
SL-112	SL112m13 SL112t7		SL-112	
SL-115	SL115m13 SL115t7		SL-115	D86322 - calmegin
SL-116	SL116m13 SL116t7		SL-116	
SL-117	SL117m13 SL117t7		SL-117	HUMNUMB23 = HUMNPM Human nucleolar protein (B23) or Human nucleophosmin
SL-118	SL118m13 SL118t7		SL-118	
SL-119	SL119m13 SL119t7		SL-119	
SL-120	SL120m13 SL120t7		SL-046	
SL-121	SL121m13 SL121t7		SL-016	
SL-122	SL122m13 SL122t7		SL-122	HUMPRKACB testis-specific cAMP-dependent protein kinase catalytic subunit (C-beta isoform)
SL-124	SL124m13 SL124t7		SL-016	
SL-125	SL125m13 SL125t7		SL-125	HSU19145 GAGE-4 (US 5,648,226)
SL-127	SL127m13 SL127t7		SL-127	
SL-128	SL128m13 SL128t7		SL-005	
SL-130	SL130m13 SL130t7		SL-130	
SL-132	SL132m13 SL132t7		SL-011	HSU10685 MAGE-10 gene (US 5,612,201)
SL-134	SL134m13 SL134t7		SL-134	HSC70P Hsc 70 pseudogene (Heat Shock protein)
SL-135	SL135m13 SL135t7		SL-135	
SL-138	SL138m13 SL138t7		SL-051	
SL-139	SL139m13 SL139t7		SL-139	Homo sapiens cosmid
SL-142	SL142m13 SL142t7		SL-005	

TABLE I

PATENT

SL-143	SL143m13 SL143t7		SL-143	Genomic clone AC003978
SL-144	SL144m13 SL144t7		SL-144	E= 3-81
SL-145	SL145m13		SL-003	AB006625- KIAA0287 gene
SL-146	SL146m13 SL146t7	WE97.E7.M13 WE97.E7.T7	SL-146	
SL-147	SL147m13 SL147m13 SL147t7	G2 WE97.F7.M13 G2	SL-147	(1) HSCDC2R Human cell cycle control gene CDC2 (2) HSU29091 selenium-binding
SL-148	SL148m13 SL148t7	WE97.G7.M13 WE97.G7.T7	SL-016	
SL-149	SL149m13 SL149t7	H2 H2	SL-149	
SL-150	SL150m13 SL150t7	A3 A3	SL-150	"Human DNA sequence"
SL-151	SL151m13 SL151t7	WE97.B8.M13 WE97.B8.T7	SL-151	Genomic frag
SL-152	SL152m13 SL152t7	WE97.C8.M13 WE97.C8.T7	SL-152	
SL-153	SL153m13 SL153t7	WE97.D8.M13 WE97.D8.T7	SL-153	
SL-154	SL154t7	WE97.E8.T7	SL-154	HUMPAR5R - PAR-5 mRNA
SL-155	SL155m13 SL155t7	WE97.F8.M13 WE97.F8.T7	SL-028	SL155m13 - EST only in Mouse
SL-156	SL156m13 SL156t7	WE97.G8.M13 WE97.G8.T7	SL-016	
SL-157	SL157m13 SL157t7	WE97.H8.M13 WE97.H8.T7	SL-157	
SL-158	SL158m13 SL158t7	WE97.A9.M13 WE97.A9.T7	SL-011	HSU10685 MAGE-10 gene (US 5.612.201)
SL-159	SL159m13 SL159t7	WE97.B9.M13 WE97.B9.T7	SL-159	Chromosome 11 pac
SL-160	SL160m13 SL160t7	WE97.C9.M13 WE97.C9.T7	SL-051	
SL-161	SL161m13 SL161t7	WE97.D9.M13 WE97.D9.T7	SL-161	HUMP65 phosphoprotein (p65) HUMPLASTA L-plastin gene
SL-162	SL162m13 SL162t7	B3 B3	SL-162	
SL-163	SL163m13 SL163t7	WE97.F9.M13 WE97.F9.T7	SL-016	HSU75330 - NCAM21
SL-164	SL164m13 SL164t7	WE97.G9.M13 WE97.G9.T7	SL-016	
SL-165	SL165m13 SL165t7	WE97.H9.M13 WE97.H9.T7	SL-165	(genomic seq)

TABLE 1

PATENT

SL-166	SL166m13 SL166t7 SL166t7	C3 C3 WE97.A10.T7	SL-166	
SL-167	SL167m13 SL167t7	WE97.B10.M13 WE97.B10.T7	SL-167	HUMLPAC109 lipoprotein-associated coagulation inhibitor (LACI) gene
SL-168	SL168m13 SL168t7	WE97.C10.M13 WE97.C10.T7	SL-168	
SL-169	SL169m13 SL169t7	WE97.D10.M13 WE97.D10.T7	SL-169	HUMNEUROF oligodendrocyte myelin glycoprotein (OMG)
SL-170	SL170m13 SL170t7	WE97.E10.M13 WE97.E10.T7	SL-170	
SL-171	SL171m13 SL171t7	WE97.F10.M13 WE97.F10.T7	SL-171	AB002374 - KIAA0376 gene
SL-172	SL172m13 SL172t7	WE97.G10.M13 WE97.G10.T7	SL-016	
SL-173	SL173m13 SL173t7	WE97.H10.M13 WE97.H10.T7	SL-173	
SL-174	SL174m13 SL174t7	D3 D3	SL-174	
SL-175	SL175m13 SL175t7	WE97.B11.M13 WE97.B11.T7	SL-016	
SL-176	SL176m13 SL176t7	WE97.C11.M13 WE97.C11.T7	SL-176	
SL-177	SL177m13 SL177t7	WE97.D11.M13 WE97.D11.T7	SL-177	
SL-178	SL178m13 SL178t7	WE97.E11.M13 WE97.E11.T7	SL-178	Human BAC clone
SL-179	SL179m13 SL179t7	WE97.F11.M13 WE97.F11.T7	SL-179	
SL-181	SL181m13 SL181t7	WE97.H11.M13 WE97.H11.T7	SL-181	
SL-182	SL182m13 SL182m13 SL182t7	F3 WE97.A12.M13 F3	SL-182	HUMAPEA apurinic/apynmidinic endonuclease (HAP1h) HSHAP1MR Human HAP1 mRNA
SL-183	SL183m13 SL183t7	WE97.B12.M13 WE97.B12.T7	SL-046	
SL-184	SL184m13 SL184t7	WE97.C12.M13 WE97.C12.T7	SL-016	
SL-186	SL186m13 SL186t7	WE97.D12.M13 WE97.D12.T7	SL-186	
SL-187	SL187m13 SL187t7	WE97.E12.M13 WE97.E12.T7	SL-187	
SL-188	SL188m13 SL188t7 SL188t7	G3 G3 WE97.F12.T7	SL-188	

TABLE 1

PATENT

SL-191	SL191m13 SL191t7	WE97.H12.M13 WE97.H12.T7	SL-181	
SL-192	SL192m13 SL192t7	H3 H3	SL-192	Human DNA sequence"
SL-193	SL193m13 SL193t7	A4 A4	SL-193	
SL-194	SL194m13 SL194t7	B4 B4	SL-194	HUMKG1DD - KIAA0098 gene
SL-195	SL195m13 SL195t7	C4 C4	SL-195	
SL-196	SL196m13 SL196t7	D4 D4	SL-196	HUMMAOAAA monoamine oxidase (MAOA)
SL-197	SL197m13 SL197t7	E4 E4	SL-197	
SL-198	SL198m13 SL198t7	F4 F4	SL-198	
SL-199	SL199m13 SL199t7	G4 G4	SL-016	
SL-201	SL201m13 SL201t7	A5 A5	SL-028	(Mouse ESTs only)
SL-202	SL202m13 SL202t7	B5 B5	SL-202	mitochondrial genome & ESTs(?)
SL-203	SL203m13 SL203t7	C5 C5	SL-040	
SL-204	SL204m13 SL204t7	D5 D5	SL-204	
SL-205	SL205m13 SL205t7	E5 E5	SL-205	
SL-206	SL206m13 SL206t7	F5 F5	SL-015	AB006625 - KIAA0287 gene
SL-207	SL207m13 SL207t7	G5 G5	SL-207	HUMFOLMES - DHFT dihydrofolate reductase gene
SL-208	SL208m13 SL208t7	H5 H5	SL-208	AB011165 - KIAA0593
SL-209	SL209m13 SL209t7	A6 A6	SL-209	
	batch 1			
	batch 2			
	batch 3			
	batch 4			

## PATENT

TABLE 2

Seq. Name and/or Other Seq. Name	BlastN vs. Gb (nearest neighbor)		BlastX vs. NRIdb (nearest neighbor)		P(V)	Accession	Hit Description	Hit Description	P(V)
	Accession	Hit Description	Accession	Hit Description					
10-sl16-117	<NONE>	<NONE>	<NONE>	<NONE>	<NONE>	<NONE>	<NONE>	<NONE>	<NONE>
18-sl16-217	<NONE>	<NONE>	<NONE>	<NONE>	<NONE>	MT_PLEPL	METALLOTHIONEIN (MT)>PIR2:S30567 metalothionein - place>GP:PPMMET_1 P.platea mRNA for metallothionein		0.32
22-sl4	AC004601	***SEQUENCING IN PROGRESS ***Human Chromosome 11p14.3 PAC clone pD939mf6:HTGS phase 1.3 unordered pieces. Homo sapiens chromosome 16 BAC clone CIT987SK-270G1 complete sequence		VPI_BPCHP	0.016		PROTEIN VPI(ORF1)		1.0
27-sl9	AF001549	Homo sapiens Rad51-interacting protein mRNA, complete cds.		ALU6_HUMAN	7.2e-28		!!! ALU SUBFAMILY SP WARNING ENTRY !!! Mus musculus RAD51-binding protein RAB22 mRNA, complete cds		3.5e-07
32-sl3	AF006259			MMU93583_1	1.2e-09		Mus musculus transcription factor Genesis mRNA, complete cds; A winged helix retinoic- acid hepatocyte nuclear factor 3/forkhead transcription factor; HNF3B/TF1 transcription factor		1.2e-13
39-sl3-1ml3	U07056	Human prostatic acid phosphatase (AC PP) gene, exon 1.		MMU41047_1	1.1e-09				0.36
47-sl15-217	U08056	Sequence 2 from Patent EP 0273928.		<NONE>	4.8e-52		<NONE>	<NONE>	<NONE>
sl102ml3	AC004453	Homo sapiens PAC clone DJ0844F09 from 7p12-p13, complete sequence.		SIK1_YEAST	5.0e-50		SIK1 PROTEIN>PIR2:S48550 hypothetical protein YLR197w - yeast (Saccharomyces cerevisiae)>GP:SC120237_1 Saccharomyces cerevisiae SIK1p (SIK1) gene, complete cds; Possible microtubule binding protein; similar to GenBank Accession Number U14913		2.7e-09
sl103ml3	AC002542	Human BAC clone RG114A06 from 7q31, complete sequence.		MUSIGHV01B_1	0.78		Mouse CBX1 Ig heavy chain V1 region pseudogene, 5' end; Ig heavy chain precursor; Possible pseudogene		0.30
sl103l7	AC002542	Human BAC clone RG114A06 from 7q31, complete sequence.		MUSIGHV01B_1	7.0e-11		Mouse CBX1 Ig heavy chain V1 region pseudogene, 5' end; Ig heavy chain precursor; Possible pseudogene		0.25

## PATENT

TABLE 2

Seq. Name and/or Other Seq. Name	BlastN vs. Cib (nearest neighbor)			BlastX vs. NRPdb (nearest neighbor)		
	Accession	Hit Description	P(V)	Accession	Hit Description	P(V)
s1106a7	148979	Sequence 6 from patent US 5627054.	4.3e-39	Y694_METJA	HYPOTHETICAL PROTEIN MJ0694>PIR2:F64386 hypothetical protein MJ0694 - Methanococcus jannaschii>GP:U67516_8 Methanococcus jannaschii section 58 of 150 of the complete genome; Conserved hypothetical protein; Similar to SP-Q12499 [PID:1420682P]	1.5e-08
s1107a7_ksa	AI021395	Human DNA sequence *** SEQUENCING IN PROGRESS *** from clone 269M15; HTGS phase 1.	2.6e-07	ALU4_HUMAN	!!! ALU SUBFAMILY SB2 WARNING ENTRY !!! !!!	0.45
s11247	B3134	HIS-1008-A2-A05-MF:abi CHT Human Genomic Sperm Library C' Homo sapiens genomic clone Plate=C' 330 Col=10 Row=A, genomic survey sequence.	1.0e-55	ALU7_HUMAN	!!! ALU SUBFAMILY SQ WARNING ENTRY !!! HYPOTHETICAL TRP-ASP REPEATS CONTAINING PROTEIN C18B11.10 IN CHROMOSOME 1>PIR2:S58306 hypothetical protein spac18b11.10 - fission yeast (Schizosaccharomyces pombe)>GP:SPAC18B11.10 S.pombe chromosome 1 cosmid c18B11; Unknown; SPAC18B11.10.1e	1.2e-14
s11277	Z83818	Human DNA sequence from PAC 138A5 on chromosome X contains ESTs.	2.8e-16	YA3A_SCIPO	Homo sapiens BAC clone RG013N12 from 7q31.2, complete sequence; H. RG013N12.gw:1335199.a	0.97
s1135m13	AC003959	Homo sapiens chromosome 5, P1 clone 1029A7 (LBNL HT5), complete sequence.	1.8e-57	AC004416.5	A; thaliana transcribed sequence; clone V19V28- 22792, 3' end; similar to nonspecific lipid- transfer protein precursor	0.016
s1135i7	AC003044	Human PAC clone DJ055C04 from 7p15-7p21, complete sequence.	3.8e-25	ATT50669.1		0.77
s1144m13	AC003684	Homo sapiens; HTGS phase 1, 53 unordered pieces.	2.2e-10	<NONE>	<NONE>	<NONE>
s1144i7	AC004089	*** SEQUENCING IN PROGRESS *** Human Chromosome 7 BAC Clone 155801; HTGS phase 1, 11 unordered pieces.	0.25	<NONE>	<NONE>	<NONE>

## PATENT

TABLE 2

Seq. Name and/or Other Seq. Name	BlastN vs. Cb (nearest neighbor)			BlastX vs. NRI'db (nearest neighbor)		
	Accession	Hit Description	P(V)	Accession	Hit Description	P(V)
SI.149m13 WE97117.M13	M87923	Human carcinoma cell-derived Alu RNA transcript, clone CE12.	7.2e-55	ALU2_HUMAN	!!! ALU SUBFAMILY SB WARNING ENTRY !!!	4.7e-17
SI.150m13 WE 97AS.M13	AF019122	Homo sapiens DNA polymerase gamma (POL.G) gene, nuclear gene encoding mitochondrial protein, partial sequence, genomic survey sequence.	5.5e-07	<NONE>	<NONE>	<NONE>
SI.152m13	AF022186	Cyanidium caldarium RK1 chloroplast sequence	0.11	<NONE>	<NONE>	<NONE>
SI.15217	AC000524	Homo sapiens Xp22 BAC GSHB- 257G1 (Genome Systems BAC Library) complete sequence.	3.5e-28	F40201	artifact-warning sequence (translated ALU class F) - human	1.2e-05
SI.153m13	U29895	Human 4-hydroxyphenylpyruvate- dioxygenase gene, complete cds.	4.4e-15	C40201	artifact-warning sequence (translated ALU class C) - human	0.49
SI.15317	U29895	Human 4-hydroxyphenylpyruvate- dioxygenase gene, complete cds.	5.1e-09	A46010	X-linked retinopathy protein (C-terminal, clone XE11.8c) - human (fragment)>GP:558722_1 X- linked retinopathy protein [3' region, clone XE11.8c] [human, mRNA Partial, 390 nt]; This sequence comes from Fig. 5	0.070
SI.155m13	Z09280	Caenorhabditis elegans cosmid Y7A9C, complete sequence.	0.016	POL.G_PRSVII	GENOME POLYPROTEIN (CONTAINS: N- TERMINAL PROTEIN; HELPER COMPONENT PROTEINASE (EC 3.4.22.-) (HC-PRO); 42-50 KD PROTEIN; CYTOPLASMIC INCLUSION PROTEIN (CI); 6 KD PROTEIN; NUCLEAR INCLUSION PROTEIN A (NI-A) (EC 3.4.22.-) (49K PROTEINASE); 149	1.0
SI.157m13	U91321	Human Chromosome 16 BAC clone CF1987SK-A-363E6, complete sequence.	6.0e-26	ALU1_HUMAN	!!! ALU SUBFAMILY J WARNING ENTRY !!!	4.5e-11

## PATENT

TABLE 2

Seq. Name and/or Other Seq. Name.	BlastN vs. (1b (nearest neighbor)		BlastX vs. NRPdL (nearest neighbor)		P(V)	Accession	Hit Description	Hit Description	P(V)
	Accession								
SI 16017	<NONE>		<NONE>		<NONE>	CA34_HUMAN		PROCOLLAGEN ALPHA 3(IV) CHAIN PRECURSOR>PIR1:CGHU3B collagen alpha 3(IV) chain precursor, long splice form - human>GPN:HSCOL4A3_1 H:sapiens (COL4A3 chain>GP:HSCOL4A3_1 H:sapiens COL4A3 mRNA; Type IV collagen alp	0.99
SI 16217 WI:97.139.17	X58263				0.0029	PRF1_LYCES		36.4 KD PROLINE-RICH PROTEIN>PIR2:S19129 proline-rich protein TPRP-F1 - tomato>GP:LETPRPF1_1 L; esculentum TPRP-F1 gene for a proline rich protein	0.99
SI 16917	AC004687				2.5e-11	<NONE>		<NONE>	<NONE>
SI 17417	<NONE>				<NONE>	A54895		mucin2, intestinal/tracheal - rat (fragment)	0.13
SI 176m13	Z73424				0.00084	<NONE>		<NONE>	<NONE>
SI 17617	Z83119				0.38	<NONE>		<NONE>	<NONE>
SI 177m13	AI022279				0.00064	ANX7_BOVIN		ANNEXIN VII (SYNEXIN) (FRAGMENT)>PIR2:A27695 synexin - bovine (fragment)	0.0018
SI 17717	AC002416				1.8e-17	<NONE>		<NONE>	<NONE>
SI 179m13	AI030052				0.030	CMU23045_8		Cepaea nemoralis complete mitochondrial genome; ATPase subunit 8>GP:CMU23045_8 Cepaea nemoralis complete mitochondrial genome; ATPase subunit 8	0.98



## PATENT

TABLE 2

Seq. Name and/or Other Seq. Name	BlastN vs. Gb (nearest neighbor)		BlastX vs. NR1db (nearest neighbor)		
	Accession	Hit Description	P(V)	Accession	Hit Description
SI.17917	L41631	Mus musculus glucokinase gene, complete cds.	0.017	<NONE>	<NONE>
SI.181m13	Z98867	Caenorhabditis elegans DNA *** SEQUENCING IN PROGRESS *** from clone Y52B11; HTGS phase I.	0.017	PS0245	hypothetical protein (cpcG4 region) - Anabaena sp. (strain PCC 7120) (fragment)>GP:ANARODCORA_6 Anabaena sp; cpcF gene, 3' end; cpcG1, cpcG2, cpcG3, and cpcG4 genes, complete cds; and unknown ORF, 3' end
SI.181i7	Z98867	Caenorhabditis elegans DNA *** SEQUENCING IN PROGRESS *** from clone Y52B11; HTGS phase I.	0.018	PS0245	hypothetical protein (cpcG4 region) - Anabaena sp. (strain PCC 7120) (fragment)>GP:ANARODCORA_6 Anabaena sp; cpcF gene, 3' end; cpcG1, cpcG2, cpcG3, and cpcG4 genes, complete cds; and unknown ORF, 3' end
SI.191m13	Z98867	Caenorhabditis elegans DNA *** SEQUENCING IN PROGRESS *** from clone Y52B11; HTGS phase I.	0.019	<NONE>	<NONE>
SI.195m13	AC004626	*** SEQUENCING IN PROGRESS *** Homo sapiens chromosome #16q12.1+16q22/23+1q11/12 BAC clone CIT987SK-A-427110; HTGS phase I, 15 unordered pieces.	0.050	HSU55091.1	Human isolate HR015 T cell receptor V-beta complementarity determining region 3 mRNA, partial cds
SI.195i7	AC004626	*** SEQUENCING IN PROGRESS *** Homo sapiens chromosome #16q12.1+16q22/23+1q11/12 BAC clone CIT987SK-A-427110; HTGS phase I, 15 unordered pieces.	0.053	S54078	probable membrane protein YPR056w - yeast (Saccharomyces cerevisiae)>GP:SC9499X_12 S:cerevisiae chromosome XVI cosmid 9499; Unknown; U19499; 12, unknown, len: 338, CAl: 0; 12, similar to S44455, transcription factor BT12 chain p34, (29,3% identit

## PATENT

TABLE 2

Seq. Name and/or Other Seq. Name	BlastN vs. Gb (nearest neighbor)		BlastX vs. NR1db (nearest neighbor)		P(V)	Accession	Hit Description	P(V)
	Accession	Hit Description						
SI 197m13	AF0031134	Caenorhabditis elegans cosmid ZC581.			0.99	<NONE>	<NONE>	<NONE>
SI 1977	U474400	Human herpesvirus-7 (HHV7) J1, complete virion genome.			0.99	<NONE>	<NONE>	<NONE>
SI 197	V00073	Sindbis virus sequence complementary to 26S messenger RNA.			3.2e-09	<NONE>	<NONE>	<NONE>
SI 201m13	AB001684	Chlorella vulgaris C-27 chloroplast DNA, complete sequence.			0.0013	SIU05069.1		1.0
SI 2017	AB001684	Chlorella vulgaris C-27 chloroplast DNA, complete sequence.			0.0014	HUMLTBP.1		1.0
SI 204m13	Z49910	Caenorhabditis elegans cosmid F44G4, complete sequence.			1.0e-11	CEI44G4.1		5.6e-72
SI 2047 SI 28m13	Z49910 <NONE>	Caenorhabditis elegans cosmid F44G4, complete sequence. <NONE>			9.3e-12 <NONE>	CEI44G4.1 <NONE>		2.3e-71 <NONE>
SI 287	Z84469	Human DNA sequence *** SEQUENCING IN PROGRESS *** from clone 300013; HTGS phase 1.			2.9e-53	<NONE>	<NONE>	<NONE>

## PATENT

TABLE 2

Seq. Name and/or Other Seq. Name	BlastN vs. Clb (nearest neighbor)		BlastX vs. NRI db (nearest neighbor)		P(V)
	Accession	Hit Description	Accession	Hit Description	
SI 29ml3	AC004465	Homo sapiens 12q24 PAC RPC13-363118 (Roswell Park Cancer Institute Human PAC library) complete sequence.	MCRA_METFE	METHYL-COENZYME M REDUCTASE ALPHA SUBUNIT (EC 1.8.-.-) > GP:MEFMCRC_5 M:fervidus methyl coenzyme M reductase component C genes mcrA, mcrB, mcrC, mcrD, and mcrG, complete cds; Methyl coenzyme M reductase alpha subunit	0.95
SI 29l7	AC004465	Homo sapiens 12q24 PAC RPC13-363118 (Roswell Park Cancer Institute Human PAC library) complete sequence.	MCRA_METFE	METHYL-COENZYME M REDUCTASE ALPHA SUBUNIT (EC 1.8.-.-) > GP:MEFMCRC_5 M:fervidus methyl coenzyme M reductase component C genes mcrA, mcrB, mcrC, mcrD, and mcrG, complete cds; Methyl coenzyme M reductase alpha subunit	0.97
SI 4M13	D42085	Human mRNA for KIAA0095 gene, complete cds.	HUMKIAAP_1	Human mRNA for KIAA0095 gene, complete cds; KIAA0095 gene is related to S:cerevisiae NIC96 gene	3.6e-12
SI 54ml3	Z68694	Human DNA sequence from cosmid cU17718, between markers DXS366 and DXS87 on chromosome X.	HUMF8L1A_1	Human factor VIII gene 1.1 element insertion DNA; Unknown protein; ORF; putative	1.2e-12
SI 61l7	AB001684	Chlorella vulgaris C-27 chloroplast DNA, complete sequence. *** SEQUENCING IN PROGRESS *** Plasmodium falciparum 3D7 chromosome 12 pYAC812 genomic sequence; ITGS phase 1, 26 unordered pieces.	AF004841_1	Homo sapiens CDO mRNA, complete cds; Immunoglobulin superfamily member; contains fibronectin type III-like domain	1.0
SI 62l7	AC004153	*** SEQUENCING IN PROGRESS *** Plasmodium falciparum 3D7 chromosome 12 pYAC293 genomic sequence; ITGS phase 1, 18 unordered pieces.	<NONE>	<NONE>	<NONE>
SI 68ml3	AC004157		<NONE>	<NONE>	<NONE>

## PATENT

TABLE 2

Seq. Name and/or Other Seq. Name	BlastN vs. Gb (nearest neighbor)		BlastX vs. NRpdb (nearest neighbor)		P(V)	Accession	Hit Description	P(V)
	Accession	Hit Description	Accession	Hit Description				
SI.6817	AJ226619	Ciona intestinalis genomic fragment, clone 17H6, genomic survey sequence		<NONE>	0.064		<NONE>	<NONE>
SI.69ml3.6a	Z22789	H.sapiens CAGT repeat polymorphism sequence.	AE001779.2	Borrelia burgdorferi (section 65 of 70) of the complete genome; Competence protein I; putative; Similar to GB:M59751 SP:P31773 PID:1573409 percent identity: 27.00; identified by sequence	1.9e-22			1.0
SI.6917	AL010138	Plasmodium falciparum DNA *** SEQUENCING IN PROGRESS *** from contig 3-66, complete sequence.	AE001779.2	Borrelia burgdorferi (section 65 of 70) of the complete genome; Competence protein I; putative; Similar to GB:M59751 SP:P31773 PID:1573409 percent identity: 27.00; identified by sequence	0.21			1.0
SI.75ml3	AC002536	Human Chromosome 11 pac pDJ1075120, complete sequence.	BTRNAT3.1	B.taurus mRNA for complete thrombospondin	1.0			0.0074
SI.7717	AF012886	Buchnera aphidicola (UDP-N- acetylmutamate; L-alanine ligase (murC'157), D-alanine; D-alanine ligase (ddlB), cell division protein (ftsA), cell septation protein (ftsZ), and pls genes, complete cds.	<NONE>	<NONE>	0.40		<NONE>	<NONE>
SI.86ml3	Z69790	Caenorhabditis elegans cosmid F33C8, complete sequence.	<NONE>	<NONE>	0.020		<NONE>	<NONE>
SI.8617	U139368	Acanthamoeba sp. 16S ribosomal RNA gene, mitochondrial gene encoding mitochondrial RNA, partial sequence.	<NONE>	<NONE>	0.054		<NONE>	<NONE>
SI.90ml3	<NONE>	<NONE>	<NONE>	<NONE>	<NONE>		<NONE>	<NONE>
SI.94ml3	X95276	P. falciparum complete gene map of plastid-like DNA (IR-B).	SHFORF.1	Shigella sonnei DNA for 26 ORFs, complete cds; ORF1	0.0096			0.15

PATENT

TABLE 2

Seq. Name and/or Other Seq. Name.	BlastN vs. C1b (nearest neighbor)		BlastX vs. NRI'db (nearest neighbor)		P(V)
	Accession	Hit Description	Accession	Hit Description	
SI 947	A1022313	Human DNA sequence *** SEQUENCING IN PROGRESS *** from clone 1119A7; HTGS phase I.	A46010	X-linked retinopathy protein (C-terminal, clone XEH.8c) - human (fragment)>GP:S58722_1 X-linked retinopathy protein [3' region, clone XEH.8c] [human, mRNA Partial, 390 nt]; This sequence comes from Fig. 5	5.7e-07

## CLAIMS

WE CLAIM:

1. A method of diagnosing cancer, tumor progression, hyperproliferative cell growth or accompanying biological and physical manifestations comprising:
  - (a) providing a polynucleotide probe that comprises a sequence capable of hybridizing to any one of the sequences shown in SEQ ID NO:1-339 or complement thereof;
  - (b) contacting a biological sample for diagnosis with said probe under hybridizing conditions that permit formation of a duplex; and
  - (c) determining the presence of said duplex.
2. The method of claim 1, wherein said polynucleotide probe comprises at least eight contiguous nucleotides of any of SEQ ID NO:1-339 or complement thereof.
3. The method of claim 2, wherein said polynucleotide probe comprises 8 contiguous nucleotides of the sequences of the clones selected from the group consisting of SL-5, SL-6, SL-9, SL-11, SL-13, SL-68, SL-69, SL-86, SL-90, SL-100, SL-107, SL-124, SL-135, SL-139, SL-143, SL-152, SL-153, SL-173, SL-177, SL-195, and SL-197.
4. A method of diagnosing cancer, tumor progression, or hyperproliferative cell growth comprising:
  - (a) providing an antibody capable of binding to a polypeptide encoded by any one of SEQ ID NO:1-339 or complement thereof;
  - (b) contacting a biological sample for diagnosis with said antibody under binding conditions that permit formation of an antibody-polypeptide complex; and
  - (c) determining the presence of said complex.
5. The method of claim 4, wherein said antibody is capable of binding to a polypeptide comprising at least six contiguous amino acid of a polypeptide encoded by any one of SEQ ID NO:1-339 or complement thereof.

6. The method of claim 5, wherein said polypeptide comprises at least six contiguous amino acids of a polypeptide encoded by any one the sequences of the clones selected from the group consisting of SL-5, SL-6, SL-9, SL-11, SL-13, SL-68, SL-69, SL-86, SL-90, SL-100, SL-107, SL-124, SL-135, SL-139, SL-143, SL-152, SL-153, SL-173, SL-177, SL-195, and SL-197.

7. A diagnostic kit comprising:

(a) a diagnostic reagent comprising a polynucleotide probe that comprises a sequence capable of hybridizing to any one of SEQ ID NO:339 or complement thereof when said sequence is present in a test biological sample;

(b) a normal biological sample; and

(c) instructions for detecting differences that exist between the levels of duplexes in said test biological sample as compared to said normal biological sample.

8. A method of treating a mammal with cancer, tumor progression, hyperproliferative cell growth or accompanying biological and physical manifestations, said method comprising administering to said mammal a composition that comprises a therapeutically effective amount of a polynucleotide comprising a sequence capable of hybridizing under stringent conditions to any one of SEQ ID NO:1-339 or complement thereof.

9. The method of claim 8, wherein said polynucleotide comprises at least eight contiguous nucleotides of any of SEQ ID NO:1-339 or complement thereof.

10. The method of claim 9, wherein said polynucleotide is an antisense construct.

11. The method of claim 9, wherein said polynucleotide is a ribozyme construct.

12. An isolated polynucleotide selected from the group consisting of:
- (a) a polynucleotide comprising the nucleotide sequence of any one of SEQ ID NO:2, 5, 49, 50, 99, 100, 115, 116, 118, 130, 131, 140, 144, 145, 146, 157, 158, 159, 163, 164, 165, 166, 177, 178, 180, 211, 212, 213, 218, 219, 220, 221, 229, 232, 233, 242, 243, 248, 249, 254, 256, 257, 259, 272, 273, 277, 288, 289, 292, 293, 316, 317, and 330;
  - (b) a polynucleotide encoding a variant of the polypeptide encoded by (a);
- and
- (c) a polynucleotide encoding a protein expressed by a polynucleotide having the sequence of at least one of sequences of (a).
13. A vector comprising the polynucleotide of claim 12.
14. A host cell comprising the vector of claim 13.
15. A composition comprising a polypeptide, wherein the polypeptide is selected from the group consisting of:
- (a) a polypeptide encoded by any one of the polynucleotides of claim 12,
- and
- (b) a variant of the polypeptide of (a).



1/5

Sequence Range: 1 to 1383

10 20 30 40 50 60  
TTA CTC ACT ATA GGG CTC GAG CGG CCG CCC GGG CAG GTG TAA AAA TAA AAT GAC AGT TTG AAC ATA  
AAT GAG TGA TAT CCC GAG CTC GCC GGC GGG CCC GTC CAC ATT TTT ATT TTA CTG TCA AAC TTG TAT  
<E S Y P E L P R G P L H L F L I V T Q V Y

70 80 90 100 110 120 130  
CAA AAC CCA CCC CAT TCC TAT AGA GCC TAG TAC TAC ACT ACC CCC TCC CAA CTT TAG CCT CCA CAT  
GTT TTG GGT GGG GTA AGG ATA TCT CGG ATC ATG ATG TGA TGG GGG AGG GTT GAA ATC GGA GGT GTA  
<L V W G M G I S G L V V S G G G L K L R W M

140 150 160 170 180 190  
ATA GTA ATG TGC TTG GAA CAC AAA AAA CAC TTC ATA AAT TGT GCT GAA TGA AAT CAT TTC CAT GAG  
TAT CAT TAC ACG AAC CTT GTG TTT TTT GTG AAG TAT TTA ACA CGA CTT ACT TTA GTA AAG GTA CTC  
<Y Y H A Q F V F F V E Y I T S F S I M E M

200 210 220 230 240 250 260  
TGT TTA TGG ATT TTG AGT TCA TTT GTA CCT TTT ACC TAA AAT TCT AGC CAC TTT AAT TTG GAG AGT  
ACA AAT ACC TAA AAC TCA AGT AAA CAT GGA AAA TGG ATT TTA AGA TCG GTG AAA TTA AAC CTC TCA

270 280 290 300 310 320 330  
TTC CAG AGC AAA GGA CCT TTT ACC TAA AAT TCT AGC CAC TTT AAT TTG GAG AGT TTC CAG AGC AAA  
AAG GTC TCG TTT CCT GGA AAA TGG ATT TTA AGA TCG GTG AAA TTA AAC CTC TCA AAG GTC TCG TTT

340 350 360 370 380 390  
GGG CAC AGA TCC CAG GCA TAA CAA CGC TTT GCG TAT ACA GCA ACC AAT ATC TTG TCA ACC CAA GAA  
CCC GTG TCT AGG GTC CGT ATT GTT GCG AAA CGC ATA TGT CGT TGG TTA TAG AAC AGT TGG GTT CTT

400 410 420 430 440 450 460  
AGT TCC TCC ATT GAT ACC TAG TAG AAA TAG CCC AGT TTT TAA AGT CCT CAA AAC TGT AAC AAA TTA  
TCA AGG AGG TAA CTA TGG ATC ATC TTT ATC GGG TCA AAA ATT TCA GGA GTT TTG ACA TTG TTT AAT

470 480 490 500 510 520  
CTT GTT TTT AAA ATT TAA CTT AAA TTA ATA CAA TCA GAT TTT TGT GTT ATT TGG GTA TTA GAG TAT  
GAA CAA AAA TTT TAA ATT GAA TTT AAT TAT GTT AGT CTA AAA ACA CAA TAA ACC CAT AAT CTC ATA

530 540 550 560 570 580 590  
GTT AAA GCA CAT ATA TCC CAG AGA CAT AGA GTT TCC GTT TCA AAA AGT CAT GCA TTC ATG TGT GCT  
CAA TTT CGT GTA TAT AGG GTC TCT GTA TCT CAA AGG CAA AGT TTT TCA GTA CGT AAG TAC ACA CGA

600 610 620 630 640 650 660  
AAT GAC AAT CCT ATC CTG ACC CGC TAT GTG ACT TGT ATC TCT AAA CCA TAG GCT TTC CTG AAT TTT  
TTA CTG TTA GGA TAG GAC TGG GCG ATA CAC TGA ACA TAG AGA TTT GGT ATC CGA AAG GAC TTA AAA

670 680 690 700 710 720  
ATC TGT TAA TTT AAC CCT GAT TTC TCA GCA GCA GCT TCT CTT TGT AAA TAG ACT TGC CTC TTC TGT  
TAG ACA ATT AAA TTG GGA CTA AAG AGT CGT CGT CGA AGA GAA ACA TTT ATC TGA ACG GAG AAG ACA

730 740 750 760 770 780 790  
GTC TGA CCT CTG CTC CTC ATA ATC AGA TTA ACT CAG ATA AAG CTG CTT CAG GGA AGA GGT CAA AAC  
CAG ACT GGA GAC GAG GAG TAT TAG TCT AAT TGA GTC TAT TTC GAC GAA GTC CCT TCT CCA GTT TTG

FIG. 1A

2/5

800	810	820	830	840	850
CGT TGC CAA AAA TAG TAG	TTG CCC TAC TTC AGT CTA TTT TCA ACA GAG TAG CCA GGA GAT CCT GTT				
GCA ACG GTT TTT ATC ATC	AAC GGG ATG AAG TCA GAT AAA AGT TGT CTC ATC GGT CCT CTA GGA CAA				
860	870	880	890	900	910
CAC ACC AAA GTC CAA TCA GCC CTA CTG TTA GCA CTC TGC TCA CAA GCC TCC AGT GGC TTC CGA CCT					
GTG TGG TTT CAG GTT AGT CGG GAT GAC AAT CGT GAG ACG AGT GTT CGG AGG TCA CCG AAG GCT GGA					
930	940	950	960	970	980
CAC TCA CAG TAA AAG CCA AGT CAT CCT TTA GCC TAT GAT GTC CTA CAT GAT TTG AAT TCC CTT CCA					
GTG AGT GTC ATT TTC GGT TCA GTA GGA AAT CGG ATA CTA CAG GAT GTA CTA AAC TTA AGG GAA GGT					
1000	1010	1020	1030	1040	1050
TTG ATT TTT GTC ACT GAT TTT TAA AAA TCC AAA TTC ATT CTC ATA CAG CTG AAT TGT CCT CTT TGC					
AAC TAA AAA CAG TGA CTA AAA ATT TTT AGG TTT AAG TAA GAG TAT GTC GAC TTA ACA GGA GAA ACG					
1060	1070	1080	1090	1100	1110
TTT AAG TAT GCC AGG ATT ATT TCT ACC TCA GGG CCT TTG CAC TTG ATA TTC CCT TCA CCT TTT CCA					
AAA TTC ATA CGG TCC TAA TAA AGA TGG AGT CCC GGA AAC GTG AAC TAT AAG GGA AGT GGA AAA GGT					
1130	1140	1150	1160	1170	1180
AGA TAG TTA TTC CCT CAC CTC AGT CAA GCC TTT ATT TAG ATG CCC CCT TCT CAT CAA GGC ATT CTC					
TCT ATC AAT AAG GGA GTG GAG TCA GTT CGG AAA TAA ATC TAC GGG GGA AGA GTA GTT CCG TAA GAG					
1190	1200	1210	1220	1230	1240
TGA TCT CCT TAT TTA AAT GTA TGA CAC CCC TTC TTT GCT TTA CAT TTA ATC AGA ACA TGT GTC ACT					
ACT AGA GGA ATA AAT TTA CAT ACT GTG GGG AAG AAA CGA AAT GTA AAT TAG TCT TGT ACA CAG TGA					
1260	1270	1280	1290	1300	1310
ATC TAG CAT ATA ATA CAT TTG CTT GAC CTC TTT TGT TTA CTG TCT ATG CCT CCT GAA TAC TGT GTA					
TAG ATC GTA TAT TAT GTA AAC GAA CTG GAG AAA ACA AAT GAC AGA TAC GGA GGA CTT ATG ACA CAT					
1330	1340	1350	1360	1370	1380
AGC TCC ACG ATA CAG GCA CTT TTC TCT ATT TCG AGC ACT GTT GTA TTA CAG AGC CTT AAA					
TCG AGG TSC TAT GTC CGT GAA AAG AGA TAA AGC TCG TGA CAA CAT AAT GTC TGC GAA TTT					

FIG. 1B

3/5

Sequence Range: 1 to 1815

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      10      20      30      40      50      60
ACT TTT TGT TCA TTT TGA TTT TTG GAT AAT GCA AAA TTA TAG ATT TTT TAA AAA TTA TAT TCA AAG
AAA ACA AGT AAA ACT AAA AAC CTA TTA CGT TTT AAT ATC TAA AAA ATT TTT AAT ATA AGT TTC TTA

      70      80      90      100     110     120     130
AAT ACT GAG TGC AAG ACA ATC TTT CTA GGT TAA AAA ATA TCT TAT AAA CCT GGA TTG TCA ATT ATT
CTC ACG TTC TGT TAG AAA GAT CCA ATT TTT TAT AGA ATA TTT GGA CTT AAC AGT TAA TAA TAA CAT

      140     150     160     170     180     190
ATT GTA TCC CAG ATG TAT GGA AGT TAA TGG ATA GTC AGT AAC ATA CAG GAC TAG CAG AAG GTT TGT
TGA TGA AGG GTC TAC ATA CCT TCA ATT ACC TAT CAG TCA TTG TAT GTC CTG ATC GTC TTC CAA ACA

200      210      220      230      240      250      260
TGT TAT AGG TAA TCT GGA GAG AAG CCA GGT AAG TGG AAT TTG GGA TTT GCT GGT GTT GCC AGA AAG
ACA ATA TCC ATT AGA CCT CTC TTC GGT CCA TTC ACC TTA AAC CCT AAA CGA CGA CAA CGG TCT TTC

      270     280     290     300     310     320     330
CAG CAC AGA GAC ATG GTA AGT GGC AAG ACC CAG GTA ACT AAA ACA ACC ATG TCT TAG TCC TTT TAT
GTC GTG TCT CTG TAC CAT TCA CCG TTC TGG GTC CAT TGA TTT TGT TGG TAC AGA ATC AGG AAA ATA

      340     350     360     370     380     390
GCT GCT GTA ACA GAA TAT CAC AGA CTG AGT AAT TTA TAA TGA ACA GAA CTT TAT TTG TCT TCT GGT
CGA CGA CAT TGT CTT ATA GTG TCT GAC TCA TTA AAT ATT ACT TGT CTT GAA ATA AAC AGA AGA CCA

      400     410     420     430     440     450     460
TCT GGA GAC TGG GAA ATC TAA GAG CGT GGC ATT GAC ATA TGG TGA GGG CAT TGG TGC CTC ATC ATC
AGA CCT CTG ACC CTT TAG ATT CTC GCA CCG TAA CTG TAT ACC ACT CCC GTA AAC ACG GAG TAG TAG

      470     480     490     500     510     520
CCA TGA CAG AAG ATG GAA ATG CAA GAG AGC TCA AAA GCA AGA GAG CAA ATG GGG CCA AAC TTG CTT
GGT ACT GTC TTC TAC CTT TAC GTT CTC TCG AGT TTT CGT TCT CTC GTT TAC CCC GGT TTG AAC GAA

530      540      550      560      570      580      590
TTT ATA ACA AGC CAC TCT TGT GAT AAT GAA CCA ACT CAA ACA ATA AAG ACA TAA ATC CAT TCA TGA
AAA TAT TGT TCG GTG AGA ACA CTA TTA CTT GGT TGA GTT TGT TAT TTC TGT ATT TAG GTA AGT ACT

      600     610     620     630     640     650
GGG CAG AGC CCT CAA GGA TGA ATC ACT TCA CTT CTT A ATG GCC TCA GCT TCT AAT ACC ATC ACA
CCC GTC TCG GGA GTT CCT ACT TAG TGA AGT GAA GAA T TAC CGG AGT CGA AGA TTA TGG TAG TGT
                                     M A S A S N T I T

      660     670     680     690     700     710     720
ATA GTA ATT CAG TTT CAA CAT GGG TTT TAT AGG GAC GTT GGA ACC ACA GCA AAC TGT AAC CAT TTT
TAT CAT TAA GTC AAA GTT GGA CCC AAA ATA TCC CTG CAA CCT TGG TGT CGT TTG ACA TTG GTA AAA
I V I Q F Q H G F Y R D V G T T A N C N H F>

      730     740     750     760     770     780     790
GAT TTC CTT ATT TGC ACC ATT TTA AAA AAA CCT ATT TAT TTA ACG ACT GTT TAT TCA GTG CCT ATT
CTA AAG GAA TAA ACG TGG TAA AAT TTT TTT GGA TAA ATA AAT TGC TGA CAA ATA AGT CAC GGA TAA
D F L I C T I L K K P I Y L T T V Y S V P I>

      800     810     820     830     840     850
CTG TTG TGT TGG GGA CTA GAG GTA ATT ACA AAG GGA ATA AGA CAA ACA GTC ACC CAC TCT GGT GAT
GAC AAC ACA ACC CCT GAT CTC CAT TAA TGT TTC CCG TAT TCT GTT TGT CAG TGG GTG AGA CCA CTA
L L C W G L E V I T K S I R Q T V T H S G D>

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FIG. 2A

4/5

860	870	880	890	900	910	920
GCT TCC CTT ATC TTC ATA ATG CAT TTG ATC CTG TG ATT CTT TGG CAC ATG AGT CCA TTG CAT CTT						
CGA AGG GAA TAG AAG TAT TAC GTA AAC TAG GAC AC TAA GAA ACC GTG TAC TCA GGT AAC GTA GAA						
A S L I F I M H L I L>						
930	940	950	960	970	980	
GCA TAT TAG TGT CCA GTA AGT TTT TCC TGA CCA ATT GAT AAT ATA GAT ATA CAT TGG TAG CAG TTT						
CGT ATA ATC ACA GGT CAT TCA AAA AGG ACT GGT TAA CTA TTA TAT CTA TAT GTA ACC ATC GTC AAA						
990	1000	1010	1020	1030	1040	1050
TGT GTA TAT TTT TAT AGT TAG ATG TTG TTG GCA CAT GTG ACT TGT GTC TCA GAA AAA TAC AGA AAA						
ACA CAT ATA AAA ATA TCA ATC TAC AAC AAC CGT GTA CAC TGA ACA CAG AGT CTT TTT ATG TCT TTT						
1060	1070	1080	1090	1100	1110	
TGG TTA AAG ACA GGA GGA TAC TAC CCT GAT TTC TCT GTT CAT TAA AGA ACA GCT ATT TGG GGG GAA						
ACC AAT TTC TGT CCT CCT ATG ATG GGA CTA AAG AGA CAA GTA ATT TCT TGT CGA TAA ACC CCC CTT						
1120	1130	1140	1150	1160	1170	1180
AAC CTG ATA CAA TTA TTT GAG CAT GTG GCT TAA AGA TTA GAC CTA TAA ACA ATT CAG GAG CAT						
TTG GAC TAT GTT AAT AAA CTC GTA CAC CGA ATT TCT AAT CTG GAT ATT TGT TAA GTC CTC GTA						
1190	1200	1210	1220	1230	1240	
CTT CCA GCA AAC TGT GTG AGA ATT CAC AGA AAT AAA CCT GGT AGG TTT GTG CTA TGT TAT TCA CAT						
GAA GGT CGT TTG ACA CAC TCT TAA GTG TCT TTA TTT GGA CCA TCC AAA CAC GAT ACA ATA AGT GTA						
1250	1260	1270	1280	1290	1300	1310
GGG CTG TTA ACT CTT TTC CAT TCC TAG GTC CTT TAT TTC CCT GCC CTC CTC AAT CTC ATG CTC TTG						
CCC GAC AAT TGA GAA AAG GTA AGG ATC CAG GAA ATA AAG GGA CGG GAG GAG TTA GAG TAC GAG AAC						
1320	1330	1340	1350	1360	1370	
AGA TTT TTA ACT ATA TTA CTT CTT TAC AAA GTC ATC TTC AAA ATG ATT CAT TTT GGA TAG CAA						
TCT AAA AAT TGA TAT AAT GAA GAA ATG TTT CAG TAG AAG TTT TAC TAA GTA AAA CCT ATC GTT						

FIG. 2B

5/5

SL5 IMMUNOHISTOCHEMISTRY COMPARISON OF TUMOR vs. NORMAL

	1	2	3	4	5	6	7	8	9	10
A	Adrenal	Adrenal	Adrenal	Ovary	Ovary	Ovary	Ovary	Breast	Breast	Breast
Tumor	(+4)	(+4)	(+2)	(+4)	(+4)	(+4)	(+4)	na	(+4)	(+1)
NC	(-)	(-)	(-)	wp	(-)	(-)	(-)	na	(-)	(-)
Normal	(+2)	(+2)	(+2)	(+1)	(+1)	na		(+1)	na	na
NC	(-)	(-)	(-)	(-)	(-)	na		(-)	na	na
B	Colon	Colon	Colon	Colon	Prostate	Prostate	Prostate	Prostate	Uterus	Cervical
Tumor	(+4)	(+4)	(+4)	(+4)	(+2)	(+3)	(+3)	(+3)	(+4)	(+2)
NC	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)
Normal	(+2)	(+1)	(+2)	(+3)	?	(+2)	(+1)	(+2)	(+2)	(+2)
NC	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)
C	Kidney	Kidney	Kidney	Kidney	Pancreas	Pancreas	Pancreas	Pancreas	Leiomyo-	Leiomyo-
Tumor	(+4)	(+4)	(+4)	(+4)	(+4)	(+4)	(+4)	(+4)	(+4)	(+4)
NC	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	EDG	EDG
Normal	?	?			(+1)	(+1)	(+2)	(+1)		
NC	(-)	(-)			(-)	(-)	(-)	(-)		
D	Liver	Liver	Liver	Stomach	Stomach	Stomach	Lymphoma	Lymphoma	Lymphoma	Lymphoma
Tumor	(+4)	(+4)	(+4)	(-)	na	na	(+4)	(+2)	(+2)	(+1)
NC	(-)	(-)	(-)	(-)	na	na	(-)	(-)	(-)	(-)
Normal	na	na	na	na	na	na	(+1)	(+1)	?	(-)
NC	na	na	na	na	(-)	(-)	(-)	na	(-)	(-)
E	Seminoma	Seminoma	Seminoma	Thyroid	Thyroid	Thyroid	Thyroid	Fibro-	Fibro-	Fibro-
Tumor	(+3)	(+4)	(+4)	(+4)	na	na		(+4)	(+4)	(+4)
NC	(-)	(-)	(-)	EDG	wp	EDG	EDG	(-)	(-)	(-)
Normal	(+2)	(+1)	(+2)	(+1)	(+1)	(+2)	(-)	(-)	purk(+)	(+2)
NC	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	na
F	Melanoma	Melanoma	Melanoma	Chorio-	Carcinoid	Chorio-	Basal Cell	Basal Cell	Basal Cell	Germ Cell
Tumor	(+4)	(+4)	(+4)	(+4)	(+4)?	(+1)	(+3)	(+3)	(+1)	(+4)
NC	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	EDG
Normal	(-)	(-)	(-)	(-)	(-)	(-)	(+1)	(+1)		(+1)
NC							(-)	(-)		(-)

Staining Intensity: -, no staining; + weak; ++ medium; +++ strong staining  
 Staining Percentage: 1: 0-25%; 2: 26-50%; 3: 51-75%; 4: 76-100%  
 For example: (++3) stands for 51-75% of cells have medium staining  
 NC: Negative Control; na: no tissue materials on slides

FIG. 3

## SEQUENCE LISTING

<110> Zhang, Jimmy  
Astel, Jon H.  
Carroll III, Eddie  
Endege, Wilson O.  
Ford, Donna M.  
Monahan, John E.  
Schlegel, Robert  
Steinmann, Kathleen E.

<120> GENES AND GENE EXPRESSION PRODUCTS THAT  
ARE DIFFERENTIALLY REGULATED IN PROSTATE CANCER

<130> 200130.463

<140> US

<141> 1999-06-11

<160> 339

<170> FastSEQ for Windows Version 3.0

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<212> DNA

<213> Homo Sapien

<220>

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<223> n = A,T,C or G

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gctgggcgtg gtggcatact cttacaatcc cagctacttg ggaggctgag gcaggagaat	240
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tctactttcc ttctaagtag gaaaaaggtg acaaaaattc aagtgtcaat gtccccttcc	540
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cctttttagt ccttttctct tagtctctctc ttcccgggtg ttggtaaaaa gaggtgaatt 180  
gacagcctat gttgaagaca ctgtgctttt ctcaagaagg acatccaaac agcaagtcta 240  
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cgtcaatgat tattccttaa gagatcagct attggtggaa tcttgtgaca atgaagagct 360  
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ctcccaagta	gctgcgacta	cagggtgcacg	ccattgcagc	tggctaattt	ttgtattttc	180
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ttcacctgcc	tcagcctccc	agagtgtctg	gattactcct	aagctcaagc	aattcacctg	300
cctcagcctc	ccagagtgtg	gggattactc	ctaagctcaa	gcaattcatc	tgccctcagcc	360
tcccagagtg	ctgggattac	tcctaaactc	aagcaattca	cctgcctcag	cctcccagag	420
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aagctcaagc	aattcacctg	cctcagcctc	ccagagtgtg	gggattacag	gtgtgaagca	600
ctacacccag	cccattcttc	ccttttaacc	aaggaaagaa	ttacacaatg	aaacaaatac	660
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ctgcccctgt	ngnccgatgg	gaaatcctaa	acaggctctg	tggnaaangc	tgnnccaagg	360
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accaaaccag	gaannaanca	caccgtgcga	aagggnattg	tgaacgaact	gaaaaattgt	480
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nnccaaggaa	ccenggttn	gggcentgga	agggncctctg	gncnnggttt	cgagggnnttg	960
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aaag						1024

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aagctgctaa	ctccctggcc	attgcccggac	tctttcaccc	ccatggactt	tccgctggca	300
ttttaaacia	catagtttct	tttctctgtc	tctttctctt	tccctctctc	tttctcttct	360
tctctctctc	tctctctctc	tctctctctc	tctcaatctc	ataatttctc	tctctctgtc	420
cacgtttccc	cccaacgctc	tctcgccac	ttctactggg	gcccaacttc	tctctgtctc	480
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gaattccagc	aaactggcgg	ccgttactan	tggattcng	ctccggtaca	ngcttggggg	720
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nannanatan	naagcncggg	aancataaan	ttgttaaagc	ccnggggttc	cctnaatnan	840
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&lt;210&gt; 7

&lt;211&gt; 1024

&lt;212&gt; DNA

&lt;213&gt; Homo Sapien

&lt;220&gt;

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&lt;223&gt; n = A,T,C or G

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cccc						1024

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&lt;211&gt; 1024

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&lt;220&gt;

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cagcctccca agtagctggg attgtaagag tatgccacca cgcccagcta ctttttgtat 180
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cccg 1024

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ctnatgccta naatcccagn acttggggag gccnaggatc tctntntgg tggatcactt 180
gagggcagga gttaanagac catctggcc aacatgatga aacctgtct ctactaaaaa 240

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tacanaangt	agctgggctg	ggtggcatac	tcttacaanc	ccagctactt	gggaggctga	300
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gnatcngctc	acttnaaagg	cnggnaatnc	cggttntccc	cntgaatccg	ggggattacc	780
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acactacgcc	aagctgctaa
tcgcgtggca	ttttaaacaa
tttctctttc	tctctctctc
tctctgtcca	cgttccacc
tctgtctctc	tctgtctcaa
cgtgcgcctt	caaaacggta
tgagaggcng	cgggaaaaat
angggngant	ttcaagcaca
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aaatatatgt	agtaaagggtg
gaaacaaaat	aaccataatc

ttcccatctt	tgacatttat	gcatacttat	cactaacacc	ctaataatca	cagactagt	420
cacagatcaa	gatgttaaca	gttaattgtt	gttgggtgtt	gggaatatgt	gtgaattttc	480
tttactgaat	ttccaaaagt	ttgtatgagt	atgtantata	tttghtaatg	aaaatacata	540
cataagaatt	tantacaaa	nacaccaaag	attatttaag	gaatttgaga	caaaaatatt	600
tanccaaatt	cccacaatga	caacaccaan	tttaggtant	ttccacatct	ntttcaaatt	660
taanggcttt	angcacacat	attttaacac	tggtanccac	aagcngtgtt	gcnccggaan	720
caannngntng	agggaaacca	ggtncaaagga	tggtanncan	taagttgtta	anggggttgg	780
gaanannngn	aattttttta	aacanattta	cnttaanttt	ccaagttttn	ccnccgggga	840
anntttttng	gccaccaatg	ggggnncccc	nttatanccn	ngtnancccg	ggacattttt	900
tnnnnggggaa	atttnganaa	atttagagt	ngaaangntt	tttacccean	agtnccn	957

<210> 13  
 <211> 1020  
 <212> DNA  
 <213> Homo Sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(1020)  
 <223> n = A,T,C or G

<400> 13	
gtgngtctag	atgcatgctc
ttcgagcggc	cgcccgggca
aagggacgct	tatggagaac
aaagagagcg	ggtgttggtc
ccgcccattct	gaccatactg
gtcaatctgt	gctcctgcag
gtctttcctg	agacattccc
accatattctt	ctatgggtcag
atcaaaaattc	ctgagtcctg
agccttcttg	tcagactctc
ctatgtagct	ttgtaaaagtc
atactgttcc	atctgecttg
ctcttaagg	cccagcttca
gcagnaata	nntcccgct
tggnnngact	tccctgaaat
cgggggggct	gcaattgcac
atttgacncc	cttaanggcn
gagcggccgc	cagtgtgatg
ggtacccagg	attcaaaagt
ctcttaaaga	tattgtgagc
caactctggc	ttttgtgcc
gacctgtttt	aaggtttttc
gtccaaatgt	cccaggattt
cccaaggaat	ccttcaaacg
tccatggctc	cctattgctt
cttgacctgc	tgactttggc
ccgcctagac	tatgagcctg
ctgggctctg	actcttttat
acttgtctgt	ccagcaaatt
cctancataa	gtcttccctt
ntcccaatca	gtttgtgctt
atgggtgaat	ccnnttcccc
tgnaantccc	aatggnttaa
naaaaggggt	tttttttttt
	60
	120
	180
	240
	300
	360
	420
	480
	540
	600
	660
	720
	780
	840
	900
	960
	1020

<210> 14  
 <211> 1013  
 <212> DNA  
 <213> Homo Sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(1013)  
 <223> n = A,T,C or G

<400> 14	
gtgtcgatgc	atgctcgagc
gagcggccgc	ccgggcaggt
ngtctccctt	ctacnagctc
tctcctttgc	tctcngctca
ataggcaata	aacacagttc
ttttcctttt	tctnancctt
gactgggctc	cccagggcct
ctagacagct	cantaagcct
caatacctct	tacctcctct
acagcagaac	cccagaagg
tttaaatagg	atttgggatt
gtgatggata	tctgcagaat
taattgtttt	gttgtttcat
acagaatgaa	aatggaagga
ancctaggtt	acccattttg
tggacagttt	cttgttgtgt
aggtcactc	agtcccttgc
cttttccatg	tcccacccat
tctgcgctgt	gttcttctc
attctcaagg	attgtcagac
gcagtagtga	ccttctcaag
tattttttaa	ggaaagaaat
	60
	120
	180
	240
	300
	360
	420
	480
	540
	600
	660

agtttaaaaa	tgcatgtctt	ttagccaatt	cagaatcctg	ccccaaaact	tttttaaaaa	720
gtcaagacag	ataaagcttt	ggggganacg	gaaaaaaann	gnnnaaaaaa	anaaagtact	780
tcgggcggn	acnacgctaa	gggnnaattc	agcananggg	gggcccgttac	aagnggggttc	840
nanncccgg	acnaancctt	gggggtttaa	caagggcnaa	ancngggtnc	cggggntnaa	900
aattgttacc	cgnaaaaaat	tccanaaaaa	natncgaacc	cggaancca	taaaanttn	960
aancccnngn	ggcnaaggg	agngnnnaac	cccnaataaa	tgnttggnc	cnt	1013

<210> 15  
 <211> 951  
 <212> DNA  
 <213> Homo Sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(951)  
 <223> n = A,T,C or G

<400> 15						
accctagggc	aaatactgag	cagggtaaaa	ttcccagaat	accactaga	agcgtggaat	60
atatcaatat	cctaggaaga	agattcagca	caccaaattt	cccattactg	ataacagctc	120
tgaaggcata	ataagaaagt	gagtgatcag	aagagcagag	aaatgacttg	ttccagtcac	180
tgccatcttg	tttacccttt	cagtgggtcc	cttacccttt	tcccactgg	gcatacagct	240
catctctctc	tgagtccttt	tctgctttcc	tcctttgctc	taaacgttcg	agtttcaaat	300
tcctcttacg	accagactta	tctcgaata	cggtttcagc	atattgaaat	tcagctgcaa	360
aggaaaatta	tactcaata	tcaggatcaa	aatcagaaat	aacattctaa	gagatcaaat	420
caaccgcttg	ggattctaata	gctagataag	aacttctgca	gccagaccaa	agtagttcct	480
accaacatct	tggtgcatat	tggcactggg	cccaagaaat	ggcattttcc	tttttttttt	540
ttttgagatg	gagttctact	ctgttgccca	gggtggagtg	cantgggccc	gattttggct	600
cactgcaacc	tcacctccc	aaggttcaag	cgattctcct	gtctcaagcc	tcctgagtna	660
gctgggggat	acagggcata	cnacancatg	cctggctagt	tttttttttg	gaattttggn	720
tagagacagg	ggtttcata	nggttngccc	aggcctggtn	cttggaaactn	anagaccctc	780
aggntggatt	caacccaact	tccgggtcac	caaaaaggtn	ncnggggatt	acangcattt	840
anncaacngn	gcccngggc	naaaatggna	anttttcang	aagggaaagc	agcnntgggg	900
atcccngggn	naantttcac	caaggcctta	aaccagggnc	gtaaatttgt	t	951

<210> 16  
 <211> 1008  
 <212> DNA  
 <213> Homo Sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(1008)  
 <223> n = A,T,C or G

<400> 16						
gtgcgatgca	tgctcgagcg	gccgccagtg	tgatggatat	ctgcagaatt	cgccctttcg	60
agcggccgcc	cgggcaggta	cattacttgg	tgtaaacatt	gttggcagtg	gtagcccttt	120
ttcagaaaagc	aacttgctgt	aagtcagggt	gtccgttcca	accttcagct	agtgaagg	180
tagtaacaaa	tggtaaacaa	gagaatgatt	gtttaaacct	atctgtggac	acttaatgca	240
actgtttaaa	aatgataatc	acgagttatg	tagcaacgtg	gaaatatatt	tacagaacat	300
taagtggaga	aagcaggaca	cgaaagtata	tttatactac	agttataact	caacagttca	360
tttatatgct	gttcatttaa	cagttcattt	aaacagttca	ttataactgt	ttaaaaatat	420
atatgcttat	agtcaaaagc	tggttggttg	ttgttggttg	aggcttatag	ttgagcatta	480
ttttcttaaa	tttcttgaat	gttctttatg	gtagtgttac	taaaaagttt	atgatcacat	540
tttcattgtg	aacataaatt	gaactcatta	tcacacactt	ggaaaataca	gaaaagtgga	600
ggaaaaaaa	tcatatcccc	ancatccaaa	gacatatact	ctcctcttat	cctgttcaat	660
cctgggttcc	ggtgcacaag	gtttatgatt	ataactgtgt	caaaatgtat	aatcaaaata	720
gctgttacat	taccttggtg	gnantaagg	taaatacctt	caccttaaat	ttttcaaaan	780
gttcccaana	ataaagggtc	ggataacagt	ggtataagtg	tgtcccaatt	gggggtgcan	840
aatacattcc	cangngggaa	aatttnnaaa	tnaagttaaa	ttattttaaa	aaatttccaa	900
aattcccaan	anctaanaac	taangggnaa	aaacctngat	cgggntnccc	caaacnngtt	960

taantggnac nccttgggaa aanaagnttt aaaaanggtg gcaaaaaag

1008

<210> 17  
<211> 1024  
<212> DNA  
<213> Homo Sapien  
  
<220>  
<221> misc\_feature  
<222> (1)...(1024)  
<223> n = A,T,C or G

<400> 17  
gtgntctctag atgcatgctc gagcggccgc cagtgtgatg gatatctgca gaattcgccc 60  
ttttnnanagg ncgcnegggc angnantctt cccnctntg ccatnannca cggnnanaan 120  
cngcagtggc actaantntg agacaatctt ncaaaccagc ttcattgtgc tncacttntc 180  
nnngtncaag angagggcca ggangggaaa catcacantc gcgctaagnc cngntccggg 240  
nngtcagcat nngntctggt ncaanncccn cgntcgggcc cctcactcta ctctgcctcc 300  
natgactttg cncctcagac ntentggaac naaggnttcc nggggggac accgcgtccg 360  
gccgnnnttg tctcggggcc acttggcgtg tgtgataaat caatcaagct gttanantcg 420  
nacgagtcctc nggtngcctg cananntaag cctcatcctc agagccttcc ctcaaaactg 480  
gantcccana tgtcatcagg ttntggttnt tttcagccan naggaagccc tngcattga 540  
atccnagaac ttgggcatgg ttnaagatct acaagntnga atacgtgcc cgnanaanc 600  
nttcaaccct aacaggaagg tnggattcaa ggaagtgta anggnncatt annccacncg 660  
ggggnaccaaa gggagntana antanncatn nntttgggtt cggccnccga agggnttaa 720  
cccccggaat tnnnttttng ntnaaggggg gnnnnggna aatccngtt cnnatttgg 780  
gaaagggann ccttnccttn cnntnggcct ntaaaaagnnt tancaanacc cgnnatntg 840  
ttnangggccc cgnttttcaa nggggttaan nnttngggg aacccccnnc cccaaagng 900  
gnnnaanggg ggnaattccc aanaaaacng gggggnncc tnnnnnangg gnttcngnn 960  
ccccnaaagg nnncttgggg ggnnannann gnnnnaaaaa gggttcccn nnnnaaattt 1020  
tttc 1024

<210> 18  
<211> 981  
<212> DNA  
<213> Homo Sapien  
  
<220>  
<221> misc\_feature  
<222> (1)...(981)  
<223> n = A,T,C or G

<400> 18  
acgcggggaca gagagaaggt taagagcaac aagatgggag gcagctgcat ggaacctgtc 60  
ccactgagga agtaaaacag agttttactc ttgttgccca ggctggagcg caatgggtgcg 120  
atctcggtc accgcaatct ctgcctcctg agttcaagcg aggagcaacc ctacctgatg 180  
gactggactt ctgcctggat tggagtttga tcatgcctcc atatgggtgt ttaccaggcg 240  
tatgcattga acctgagttt gtctcttcaa tacaagggaaa atctctgccg cttagtgtt 300  
ttccaagaaa catgagcttc tgcctttcaa tgaggaagat actcagaagt catgttcgag 360  
cactccggaa aatgtccttg gagtttcaac atttcttttg tcttccacat ttcattttgt 420  
cctgattaaa gaggaagcca agttgctgtt tgtgtggcca tgtgagcagg canggagatg 480  
gtggctgcct agaagccaag agaagtggcc tcaagatgaa atctaccttg ctggtactgc 540  
ccggggcggc cgcccgggca aggtacnttt tttttttttt gttttttttt ggcaaaaagg 600  
ctgtaaaagct tttttgggga gaaattttta tgggncaaan tttccaacac aggnagcanc 660  
cctgaaacca attttaagcg ggtccttccc ttttaaggct gttnaattgc cccttcaanc 720  
ttcctcaagg ngtttttcac cctccncccg ggattttggn aaaggcccaa aantccntgg 780  
gnnaanaagg gacaatctcc cgggnttaaa aaccaattnt ncggggngna accnggttcc 840  
ctgggctann cncctttaan ggntnccggg gcccttttgn gggggnaatt ttcaaacggn 900  
ncctncattt tctnagggg naancncct tngggtcann gggncnann cccaagnctt 960  
caaanccnaa ntcttttggg g 981

<210> 19

<211> 980  
<212> DNA  
<213> Homo Sapien

<220>  
<221> misc\_feature  
<222> (1)...(980)  
<223> n = A,T,C or G

<400> 19  
acttttttct tttttttttt tttttccgtc tccccaaagc tttatctgtc ttgacttttt 60  
aaaaaagttt gggggcagat tctgaattgg ctaaaagaca tgcattttta aaactagcaa 120  
ctcttatttc ttctctttaa aaatacatag cattaatcc caaatcctat ttaaagacct 180  
gacagcttga gaaggctcact actgcattta taggaccttc tgggtggttct gctgttacgt 240  
ttgaagtctg acaatccttg agaatctttg catgcagagg aggtaagagg tattggattt 300  
tcacagagga agaacacagc gcagaatgaa gggccaggct tactgagctg tccagtggag 360  
ggctcatggg tgggacatgg aaaagaaggc agcctaggcc ctggggagcc cagtccactg 420  
agcaagcaag ggactgagtg aagccttttg caggaaaagg ctaagaaaaa ggaaaaccat 480  
tctaaaaacac aacaagaaac tgtccaaatg ctttgggaac tgtgtttaat gcctataatg 540  
ggtcccaaaa atggggtaac ctagacttca gagagaatga gcanaganca nagggagaaa 600  
tctggtctgc cttccaatth tcaatccgtn atcccagggtg aagctgggta ngagggggag 660  
ancattngna naaaaaatnga aacaacanaa nccagtttac taaatnaagg gaacctgccc 720  
cngggcgggc cnccaanggg ccaaatttca ancaacanng ggcggggccc ttaccaantg 780  
gnattccgaa gccncgggta accaangcct ngngttnaat ccagngggnc aaanccngtt 840  
tnccngnggt gnaaattggt tancccgccc naanaattcc acancaacga atcngaagnc 900  
cgggcnagca tnnangnnta aancccgngg ggggcncaaa agggaatgnn nccanaccnn 960  
attaaatncg gttgcccctg 980

<210> 20  
<211> 1024  
<212> DNA  
<213> Homo Sapien

<220>  
<221> misc\_feature  
<222> (1)...(1024)  
<223> n = A,T,C or G

<400> 20  
cttgggtacc ngctcggatc cctagtaacg gccgccagtg tgttggaatt cgcccttcca 60  
tcctaatacg actcactata gggctcgagc ggccgcgggg cagggtattca gcggccgctt 120  
tttttttttt tttttttttt tttttttttt attgntgaca ctattacaga tagaatgacc 180  
acaaccatat taacaaacca aaaacctgtg cacagaaaca agatgaagaa aatatatcaa 240  
gatgttaacc acactntttg gatgggtgaaa acatgggtga gtttctcttc tacatttctg 300  
taacttcaaa gtttctataa tgaacacatt tcataataa tggaaatata tgtagttaaag 360  
gnggactacc aaaacactag aatgatgacc tttcaaggaa accgaaacaa aataaccata 420  
atcccacaac aaccacacaa ctatttcttg gttttcatct ttcttcccat ctttgacatt 480  
tatgcatact tatcactaac accctaataa tcacagacta gtgcacagat caagatgtta 540  
acagttaatt gttgttgggt gttgggaata tgtgtgaatt ttctttactg aatttccaaa 600  
gttttgtatg agtatgtatt atatttgtaa tggaaaatac atacataaaa tttattacca 660  
aaacacccaa gattatttaa ggaatttgag acaaaatatt taaccaaatt cccacaatga 720  
caacactatt ttaggtatth tccacatctt ttcatttaag actttatgcn cncatattta 780  
acactggtat ccacaagcgt gtgccctgaa accaggatan nggggaaacn ngatcaagat 840  
gttagccagt agtttggtag gnggttgga aatataggga attttttnaa aaaaatttac 900  
tttatttncn aaattttccc cttgggnaag ggattatggc ncnccaangg gngcccccctt 960  
aaanacnctg gttttcngga cttttttttt nggggaccat ttggaaaaaa ttaangggga 1020  
aggt 1024

<210> 21  
<211> 1024  
<212> DNA  
<213> Homo Sapien

<220>  
 <221> misc\_feature  
 <222> (1)... (1024)  
 <223> n = A,T,C or G

<400> 21  
 nagnngcang cncgagcgcg cgccagtggt atggatatct gcngaattcg cccttcntan 60  
 cngnngncac tnaatgcang ngcnaacca tgataacccg agttatgctn agcanaggaa 120  
 ctatatgtac agaaacatta agtgnggaaa gccnnacn cn anggnanntg aatactacng 180  
 tnataactna ncagaccatt nanatgctgc acatttaaca nnnctntcan acagnanatt 240  
 ataannngnt ananntatat atgctnatng accaaagctg tngaggggtg gccgttgaag 300  
 gcnnnnngnt nagcattanc atnttacnnc acttgccctg cctntatggc agggttacta 360  
 tctttgttac tgatcacgac atcantgcga acntaanacn aacncnntat nacacactng 420  
 nnanagcccg aatcgngngng gaacagtcac ntntcnccnc canccnnaga catntcnenn 480  
 cctcttaten tgancattcn agnttctgtg cacaggtnta tgatnttanc ngtgncaaan 540  
 tgnntctna aantanttgc cacatnacct tngaggantt atggannaan actctcactt 600  
 taaanccnnc aancgacccc nanaanactg tncgtntaac agtgcanat gtgtgatttc 660  
 atagtnttg acacacatnc ccacnggaan cacaggcggtg tgactgaac attntagagg 720  
 ntacctatct gccgacacct aacactacng gtnacggcaa gatcggaacc tntaannggg 780  
 ttaacncaaa cnctagggat acccngggaa atatgtggcc caccgtttaa acccccgaag 840  
 tgccngtac ccnggacatt gttttcgtg cggtanttg gttaaanntg ggntnaaaac 900  
 cctaattccc cctgggggtt tgccactaaa tttgaaggac cttttggccc tgccaaaac 960  
 annaacctg gcncanaact ttggggganc nggnnaggna gggtnnccct tttttccga 1020  
 aggc 1024

<210> 22  
 <211> 1024  
 <212> DNA  
 <213> Homo Sapien

<220>  
 <221> misc\_feature  
 <222> (1)... (1024)  
 <223> n = A,T,C or G

<400> 22  
 gtgcgatgca tgcncgagcg gccgccagtg tgatggatat ctgcagaatt cgccctttcg 60  
 agcggccgcc cgggcaggta cttttttttt tttttttttt ttttttttag attccacata 120  
 tgagtaaaat catgtggtat ttgacttgcc ttttaaaaca cagtgaagaa tctgtcttac 180  
 tttattcagg gtaggagaag ctacctgggc tcccataaa tgaggtgctc catcccatca 240  
 tacagcccca tcatattcag tgcttcccag atgacctcct caggggtgca gtagccctct 300  
 atgaagatta tgcttaggat aagtatgaga atgccagtct tgggcatgct ctggacatca 360  
 ctacgcatcc catcataggt gagggccagg gaggtgacaa ggacaaagga gtggccagtg 420  
 ggatccactt cctttacatc aatgccaaag accagcagca tgactcgga ggcttacta 480  
 aacaacaaag ggaagtgggt ttcataaatt tttatgacac tctccaagta tttctgcctt 540  
 tgtgatcggt tccttcattt gataactgaa gagcagaaac tgcaccaaat cagtcacctt 600  
 ttcactatc tcaactcttg gtaaagactc actgtctggc aaggacctgg taggggtgctt 660  
 gggactcccc tccttttggc tgcnggagnc ctancagat tgatctaatt gaagggaac 720  
 aacgaccna ggggaaggag cagggctatc tngagcaacn ctggggaagg atttggggtc 780  
 nccatcatca ngcagnaaac tccctcccgg gggtnccctg ggnanttaaa gggatnccca 840  
 ggaaggagga nggagggan agggaggang agggaaaaac nagntngga aaaagggaacn 900  
 cgnggggaaa ttgggntta tacaccgcn ncnnnaannn gggngagnc ngngnccng 960  
 tcngngnenn gnttcenntt gggngaagnn gntttctenn angggncggn nnnnnnnnnc 1020  
 cnnt 1024

<210> 23  
 <211> 948  
 <212> DNA  
 <213> Homo Sapien

<220>



<221> misc\_feature  
 <222> (1)...(948)  
 <223> n = A,T,C or G

<400> 23  
 acttttttct tttttttttt tttttccgtc tccccaaagc tttatctgtc ttgacttttt 60  
 aaaaaagttt gggggcagat tctgaattgg ctaaaagaca tgcattttta aaactagcaa 120  
 ctcttatttc tttcctttaa aaatacatag cattaaatcc caaatcctat ttaaagacct 180  
 gacagcttga gaaggctact actgcattta taggaccttc tgggtggttct gctgttacgt 240  
 ttgaagtctg acaatccttg agaatccttg catgcagagg aggttaagagg tattggattt 300  
 tcacagagga agaacacagc gcagaatgaa gggccaggct tactgagctg tccagtggag 360  
 ggctcatggg tgggacatgg aaaagaaggc agcctaggcc ctggggagcc cagtccactg 420  
 agcaagcaag ggactgagtg agccttttgc aggaaaaggc taagaaaaag gaaaaccatt 480  
 ctaaaacaca acaagaaact gtccaaatgc tttgggaact gtgtttattg cctataatgg 540  
 gtccccaaaa tgggtaacct agacttcaga gagaatgagc agagnagcaa aggagaaatc 600  
 tgggctgtcc ttccattttc attccgttaa cctcaagggt anctggtaaa aggggagaca 660  
 ttagaaaaaa aatgaancaa caaancaatt actaatgang tacctgcccg gggcgccgcg 720  
 aaagggcgaa ntccaagcac acngggcggg cggttacaan tnggatttcg aaccgggtac 780  
 caaancntgg gngtaaanca ngggncaana accggnttcc cgggggtgaa aantgtttat 840  
 ccgcccacaaa attccacaaa ancaatanga aaccggaaan cataaagtnt taaaccctgg 900  
 ggggggcccc aangantgag ccaaanccca attnaattgg gttggncc 948

<210> 24  
 <211> 1024  
 <212> DNA  
 <213> Homo Sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(1024)  
 <223> n = A,T,C or G

<400> 24  
 taccgcccct gcacccctag taacggccnc cagtgtgctg gaattcgccc ttcctatctg 60  
 tggacactta atgcaactgt ttaaaaaatga taatcacgag ttatgtagca acgtggaaat 120  
 atatttacag aacattaagt ggagaaagca ggacacgaaa gtatatttat actacagtta 180  
 taactcaaca gttcatttat atgctgttca tttaacagtt catttaaaaca gttcattata 240  
 actgtttaaa aatatatatg cttatagtca aaagctgttg tgggtgtggt gttgtaggct 300  
 tatagttagg cattattttc ttaaatttct tgaatgttcc ttatggtagt gttactaaaa 360  
 agtttatgat cacattttca ttgtgaacat aatttgaaact cattatcaca cacttggaat 420  
 atacagaaaa gtggaggaaa aaaaatcata tccccaccat ccaaagacat atactctcct 480  
 cttatcttgt tcattcttgt ttctgtgcac aggtttatga ttataactgt gtcaaaatgt 540  
 atattcaaaa tagctgttac attacctttg tgggaattatg gttaaatact ttcaacttaa 600  
 ttttttcaaa tgttccctat aataatgtcc tgataacagt gtattatgtg tgtctccatt 660  
 ggtgtgcata atacataccc agaggaaaaa ttgaaaaata aagtaaatat ttttaaaaaa 720  
 ttacctatat tcccaacacc taacaactac tgnttaacca tcttgatctg nttcctctat 780  
 cttggttcag tgcacacgct ttnggaataa cagtgggttaa atatgtgtgc cataaaggcc 840  
 ttaaatggaa aagatgtggg aaaaataact taanaataag ggtggccttt ggggggaaat 900  
 ttggttaaaa aattttgggc tcnaaaattc cnttaanaaa acccttgggg gggttgggna 960  
 ataaaaatnt taanggangg aatnttcccn ttccantttt nattccttcc tcttcccaaa 1020  
 actt 1024

<210> 25  
 <211> 1024  
 <212> DNA  
 <213> Homo Sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(1024)  
 <223> n = A,T,C or G

&lt;400&gt; 25

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gccgtcnaga cncatgcncn agcgnnecgnc nggtgtgatgg atatntgcng aattcgncct      60
tccatccctaa tacgactcac tatagggctn nagngngcca ctattncnga tngaangacc      120
acngccatat taacaaacca aaaacctgtg cacagaaaca agatgaagaa aatatatcaa      180
gatgttaacc acactctttg gatgggtgaaa acatgggtga gtttctcttc tacatttctg      240
taacttcaaaa gnttctataa tgaacacatt tcatatataa tggaantata tgtagnaaag      300
gnngactacc aaaacactag aatgatgacc tttcaaggaa accgaaacaa aataaccata      360
atcccacaac aaccacacaa ctatttcttg gttntcatnt ttcttcccat ctttgacatt      420
tatgcatact tatcactaac accctaataa tccagactag tgcacagatc aagatgttaa      480
cagtttaattg cngntgggtg ttgggaatgn gcgtgaattt tctttactga atttccaaag      540
ttttgtatga gnntgtatna natttghtaan ggaaaataca tacatnaaat ttattacca      600
aacaccaaag attattttaag gaatttgaga cnaaatattt aacccaaatt ccacaatgcc      660
aacactnttt taggnatntt ccacatcttt tcntttaaga ctttatgcnc ccataatgt      720
aacactggta tcacaaagcg tgtgcactga aaccgggat nnaggaacc gancaagatg      780
ttncnagnag ttggtangng gatnggaaaa taggnaattt ttaaaannaat tnacttttat      840
ttccnanatn tccctttggg gatgncttat gnccccccat gggggncccc ctttanance      900
ctggtaatca nggcentttt ttttggggaa cttttggaaa aaanttnaag gggaangttt      960
ttaccataa tttcccaaaa ggnanggggn acnctttttt ggaanattct ttnggcncct     1020
tttn

```

&lt;210&gt; 26

&lt;211&gt; 1024

&lt;212&gt; DNA

&lt;213&gt; Homo Sapien

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)... (1024)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 26

```

gtgcgatgca tgcncgagcg gccgccagtg tgatggatat ctgcagaatt cgccctttcg      60
agcgcccgcc cgggcaggta cttttttttt tttttttttt ttttttttag attccacata      120
tgagtaaaat catgtggtat ttgacttgcc ttttaaaaca cagtgaagaa tctgtcttac      180
tttatccagg gtaggagaag ctacctgggc tccccataaa tgagggtgctc catcccatca      240
tacagcccca tcatattcag tgcttcccag atgacctcct caggggtgca gtagccctct      300
atgaagatta tgcttaggat aagtatgaga atgccagtct tgggcattgct ctggacatca      360
ctcagcatcc catcataggt gagggccagg gaggtgacaa ggacaaagga gtggccagtg      420
ggatccactt cctttacatc aatgccaaag accagcagca tgcactcgga ggcttacta      480
aacaacaaa ggaagtggtc ttcataattt tttatgacac tctccagtat ttctgccttt      540
gtgatcggtc ccttcatttg atacttgaag agcagaaact gcaccaaact agtcaccttt      600
tcctctatct cacttctggg gtaaagactc actgtctggc aggacctgta ggggtgcttg      660
gactctctct cttttggctg ctggagccct caacaagatt gatctaattg gaagggaac      720
caaccnaccg aangggggang gagcaggctn ttctgaagca ctctggggga aggattttgg      780
ngtnncnat catncagcan gnaaacctcc cncgggggt gccttggnna ttananggtt      840
agcaaggang gaggacgnag gaananggan gnangnaggg aaaaagangg attggaaaan      900
agggancctn ggtgggaaat tggggttttt nagcaatccc ccnccaaaaa ncnaggggaa      960
ccctgttcaa ccncanggc cnggnttcca cttttggaat ttgaaanttt cctcaaggaa     1020
ngaa

```

&lt;210&gt; 27

&lt;211&gt; 935

&lt;212&gt; DNA

&lt;213&gt; Homo Sapien

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)... (935)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 27

```

acgcgggggtg ggggggggtcc tgggtctttgg cttctcgact cggctctgtt tcgacagcga      60

```

acatgtcgcg	gcctgtcaga	aataggaagg	ttgttgatta	ctcacagttt	caggaatctg	120
atgatgcaga	tgaagattat	ggaagagatt	cgggccctcc	cactaagaaa	attcgatcat	180
ctccccgaga	agctaaaaat	aagaggcgat	ctggaagaa	ttcacaggaa	gatagtggag	240
actcagaaga	caaagatgtg	aagaccaaga	aggatgattc	tcactcagca	gaggatagtg	300
aagatgaaaa	agaagatcat	aaaaatgtgc	gccacaacg	gcaggcggca	tctaaagcag	360
cttctaaca	gagagagatg	ctcatggaag	atgtgggcag	tgaggaaaga	caagaaggag	420
aggatgaggc	accattccag	gagaattccg	gcagcgatga	agatttccta	atggaagatg	480
atgacgatag	tgactatggc	agttcgaaaa	agaaaaacaa	aaagatggtt	aagaagtcca	540
aacctgaaag	aaaagaaaag	aaaatgcccc	aaccagact	aaaggctaca	gtgacgccaa	600
gtccagtga	aggcaaaagg	aaaattnggt	cgccccacag	cttcaaaggc	atcaaanggg	660
aaagaatccn	tctccaaaag	aagaaagatg	agggaaacgg	aaaaccccc	agaaaaggaa	720
aacatctana	agcccccaa	cccagaaatc	tggggataaa	ggggctgaaa	aataaacccc	780
cntttgggga	agntttaaaa	ttatgaangg	nctggggaaa	aaattttttt	aaaaannnnn	840
nnnnnnnnna	aaaaaanttt	cctgcccggg	ggggcgccnc	naaaggggga	anttcaanaa	900
aaangggggc	ggtttaaaaa	ggggtttcca	ccccn			935

&lt;210&gt; 28

&lt;211&gt; 1024

&lt;212&gt; DNA

&lt;213&gt; Homo Sapien

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(1024)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 28

cttgnaccg	ccctcgatc	cctagtaacg	gccgccagtg	tgttggaatt	cgcccttcc	60
atctgtggac	acttaatgca	actgtttaaa	aatgataatc	acgagttatg	tagcaacgtg	120
gaaatatatt	tacagaacat	taagtggaga	aagcaggaca	cgaaagtata	tttatactac	180
agttataact	caacagttca	tttatatgct	gttcatttaa	cagttcattt	aaacagttca	240
ttataactgt	ttaaaaatat	atatgcttat	agtcaaaagc	tgttggtgtg	ttgtgttgt	300
aggcttatag	ttgagcatta	ttttcttaaa	tttcttgaat	gttctttatg	gtagtgttac	360
taaaaagttt	atgatcacat	tttcattgtg	aacataattt	gaactcatta	tcacacactt	420
ggaaaatata	gaaaagtggg	gaaaaaaaaa	tcatatcccc	accatccaaa	gacatatact	480
ctcctcttat	cttgttcatt	cttgnntctg	tgacacaggt	tatgattata	actgtgtcaa	540
aatgtatat	caaaatagct	gttacattac	ctttgtggaa	ttatgggtta	atactttcac	600
tttaattttt	tcaaatgttc	cctataataa	tgtcctgata	acagtgattt	atgtgtgtct	660
ccattgggtg	gcataataca	taccagagg	aaaaattaga	aaataaagta	aattatttta	720
aaaaattacc	tatatcccc	aacacctaac	aactactgnt	aacatcttga	nctggttcc	780
ctatcttggt	tcaagtgcac	accgcttgng	aataacaagg	gttaaaaatg	ngngccataa	840
aggtcntaaa	atggaaaagg	atgtgggaaa	aatnacctaa	aaataggggt	ggccattggg	900
gggnaatttg	ggttaaaaaa	tttgggctcn	aaaatncctt	aaaaaaaanc	ctttgggggt	960
tttgggaaaa	aaaaatttta	ggggagggaa	ttttccattt	ccaaatntta	ntcctactc	1020
ntta						1024

&lt;210&gt; 29

&lt;211&gt; 1024

&lt;212&gt; DNA

&lt;213&gt; Homo Sapien

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(1024)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 29

taggatncat	gctcgagcgg	ccgncagttg	gatggatata	tgcnagaata	cgcccttcca	60
tcctaatacg	actcactata	gggctcgagc	ggctgcccag	gcagggtgcta	acaaacccaa	120
aaactgtgca	cagaaacang	atgaagaaaa	tatatcaaga	tgtaaanac	actctttgg	180
tggtgaaaac	atgggtgagt	ttctcttcta	cntttctgcn	antncanagn	ttctataatg	240
aacacatttc	atatgtaatg	ganntntntg	tagtgnaagg	tggaactacc	gaacactaga	300

```

atgatgacct ttcaaggaaa ccgaancaaa ntnaccntan tcccacaana accacannac 360
tattncntgg tnnatnatgtt tcttcccatc tttgacattg atgcntactt aggactancg 420
ccctaataat cccagacttn ggcacagatc aaganggtaa cnggtgattg gaggtgggtn 480
gccggaantt ggggtgantg tnttttatgg anttnccann ttttggtang ngattgnnna 540
aaattnga an nggaaacnct tacttnaant tgnttaccnn aacnccnagg atnttttaag 600
gattnggggc cnaaattttt acccaaattc cnncaangcc ancncgtgtnt aagtcatttt 660
caaanttttt tcnccttaag accttaaggc cccctaagggt aacctgggaa tanaaggggg 720
ggcacntggn accagnttcc nagggaaacng nnccaagant tttcccnnt nttgtttgg 780
gggttgggaa atnnnnngnaa attttttaaa ggtaatncac ttaatttgcc aaaggaattc 840
ccttnggggg nggnnttatt gcncacccat gggagacccc cntaaggccc cnggaataag 900
ggcctttttt tttngggacc atttgggaaa aattttaang ggaaggcnnt ttgnaccctt 960
aatttcccca aggnaaangg aaccncccnt tttggnatt gcattttngg ccccgttttt 1020
aagg 1024

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<210> 30
<211> 1024
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1)...(1024)
<223> n = A,T,C or G

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<400> 30
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ctttcgagcg gccgcccggg cagggtacttt aattttgctt gttcaaata tctacactta 120
cattttgcaa atcttttttt ttaaattttt taaattttat attttttttc cagccaactc 180
aaggccaaaa aaaatttctt aatatagtta ttatgcgagg ggaggggaag caaaggagca 240
caggtagtcc acagaataag acacaagaaa cctcaagctg tgaggtcaat ttgtaattaa 300
aagaatacta agattagatg aacacaacac tcagaaatac tctaggagag ctgaaaaaga 360
aggaacagat gttacaacaaa caaattaagg ctgctgggga acctgagtc atgttaagct 420
tgggttgact gtaaagaatt tttttttttt taatgcaagt tagacatgga gttagagggt 480
cagataaata acgaagagaa ttaagttagc gatagaaaaga tctaaggata ctagctcctg 540
ggcacctagg gtgcaaaactg acttggtggca gcataaagctg atgctgcaca ggggacccaa 600
gccatgttgc tacttgtcac ttaaggcang aagcgcacaa aggaagtgat gaaagggtat 660
tagcctgcaa cattatttac agcatganag cctctcctac ggggtcccaac cttcattagg 720
cactactggt gattcaagtg aatgggttgt aaccantcc ttaaaaggca aaggatgta 780
ggantttaca gggaaaaaaag cttccgggggt ttancaaatt caccaatcan caaaccacat 840
attgaagttt ggttaaaaaa aaaaaanann anaaaaaagt nccctcgccc gngaaacanc 900
cctaaggggg naaattccag canactgggn gggccgntta caaagggggt cgaaccncgg 960
taccaaacct tgggggttaa ncaaggggca aaancgggtt ncccgnnggg aaaattgttt 1020
nccg 1024

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<210> 31
<211> 1019
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1)...(1019)
<223> n = A,T,C or G

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```

<400> 31
gtngatgca tgctcgagcg gccgccagtg tgatggatat ctgcagaatt cgccctttcg 60
agcggccgcc cgggcaggta ccatgctgac ttcttggtat cttttaaggc ctaattttcc 120
cttccttgag attactgtag tgtgttccag ctaattttcta tttggaaacg agttggaaca 180
gctgaaaact aggtattatt gaaggcaaa cagcctcacg tcagtttttt atcagctcat 240
ttgggaagtt tttttttttt ttttttttta attaattaga aagtaggctg ggcacgggtg 300
ctcatgccta taatcccagc acttggggag gccgaggatc tctctctctg tggatcactt 360
gagggcagga gttaagagac catcctggcc aacatgatga aaccctgtct ctactaaaaa 420

```

tacaaaaagt	agctgggcgt	ggtggcatac	tcttacaatc	ccagctactt	gggaggctga	480
ggcaggagaa	tcacttgaac	ctaggaagca	gaggttgcag	tgggccaaga	tcacaccact	540
atactctagc	ctgggcgaca	gaggtgggga	aaaaagtagg	acccctgtcc	tatattcagg	600
tttttctcac	atatatgaac	ccatctaaat	tctacgttgt	taaaggtanc	ttaggttaat	660
taagtcata	cttatttaag	accaatatgg	ggtgaaatgg	gatttttttt	taaaaatcct	720
acagntnagg	ctttccnact	ttcctttnaa	atgaggaaaa	aaaggtgaca	aaaattcaag	780
tgtaaatgtc	ccctcctggg	gaaanaggtt	tanaaaaaaca	acaggctcaa	ccttctgaac	840
tnctaacaan	ttcccttnga	aanttaacga	anccattaaa	atcnngattt	taaaagagga	900
aaanaaaaaa	gttcctcggg	cggnnacaan	cctaagggng	aaattccaca	aaaanngggg	960
ggcctttana	aagnggttcc	nacccggtac	aaaaccttgg	gnttaaccan	gggccaant	1019

<210> 32  
 <211> 1024  
 <212> DNA  
 <213> Homo Sapien  
  
 <220>  
 <221> misc\_feature  
 <222> (1)...(1024)  
 <223> n = A,T,C or G

<400> 32						
accgccctcg	nateccctagt	aacggccgcc	agtgtgctgg	aattcgccct	tgttggtggg	60
tgttggaat	atgtgtgaat	tttctttact	gaatttccaa	agttttgtat	gagtatgtat	120
tatatattgta	atggaaaata	catacataaa	atattattacc	aaaacaccaa	agattatttta	180
aggaatttga	gacaaaatat	ttaaccaaat	ttccacaatg	acaacactat	tttagttatt	240
ttccacatct	tttcatttaa	gacttttatgc	acacatatatt	aacactgtta	tcacaagcgt	300
gtgcactgaa	acaagataga	ggaaacagat	caagatgtta	gcagtagttg	ttaggtgttg	360
ggaatatagg	taatttttta	aaataattta	ctttattttc	taatttttcc	tctgggtatg	420
tattatgcac	accaatggag	acacacataa	tacactgtta	tcaggacatt	attatagggg	480
acatttgaaa	aaattaaagt	gaaagtattt	aaccataatt	ccacaaaggt	aatgtaacag	540
ctattttgaa	tatacatttt	gacacagtta	taatcataaa	cctgtgcaca	gaaacaagaa	600
tgaacaagat	aagaggagag	tatatgtctt	tggatggtgg	ggatatgatt	ttttttcctc	660
cacttttctg	nattttccaa	gtgtgtgata	atgagttcaa	attatgttca	caatgaaaat	720
gtgatcatta	aacttttttag	taacactacc	aataaaggaa	ccatttcaag	aaaattttaag	780
gaaaaataat	gctcaactat	taagcctacc	acaaccaaca	cccacaacag	cttttggaact	840
attaagcnta	tatatatttt	acnggtatta	atggaaactgg	ttaaatgaac	tggtaaaagg	900
aaccgcatnt	taaatggact	ggtgnggtta	taaccggtgg	tataaaaana	cctttggggc	960
ctggtttttc	ccttaanggt	ctgnaaanat	attttcncgt	ngtccanacc	ncgggatatc	1020
aatt						1024

<210> 33  
 <211> 1024  
 <212> DNA  
 <213> Homo Sapien  
  
 <220>  
 <221> misc\_feature  
 <222> (1)...(1024)  
 <223> n = A,T,C or G

<400> 33						
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ttccancna	atagcagcna	ctatagggcn	nncnnntng	gcnctttgn	tgccctccn	120
ctcgnaaat	ancatatatta	acgaaattgt	nctggccttg	agttggctgg	agagaaatat	180
tnngagnnnn	accngtnnnn	ntnngnnatc	ngtaaaantgt	aanagtagnt	catttgaaca	240
agcaatnatt	naantaccca	ctggnggaaa	ngngnctgaa	tcttactctt	ntggatctgc	300
aggantaggg	cttgtnagta	tgtcaaanat	gcnnncagtg	tcaangttta	ngccnattgt	360
agancntngta	gcaggaancn	acnntgangg	ancnncagaa	nggagncctn	anacatnncc	420
agatntacga	ggngagagga	gacanacnga	gaaagacacc	ntaggnncga	nctgnagaag	480
gncaggattc	tgagaatgaa	ntgcncgggn	agtcenganc	agattggaaa	aggagnttct	540
ganggnatgg	tgcacnngag	ggctgacnng	tangaggnac	tgntgttggg	acgnacatag	600

cgaaagntgn	tgngcagtg	ggattactac	atgnngaaaag	gactcttgaa	acgaggaact	660
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gtggncgncc	cgtttaaana	gccnttttga	tggaaantca	aggggtgnncg	gtacnacctt	780
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annngngggg	ccccttaatin	gcacnggggtg	aacaatgcna	accctcgggt	tattggaaen	900
accgnggana	anatggttac	cgaaccatta	ngtgggggna	aacccggacc	ccggaaggct	960
tttttncct	cngggtaaaa	acttaacaga	ccnatttttt	gcccgccntt	taacangtct	1020
tttt						1024

&lt;210&gt; 34

&lt;211&gt; 982

&lt;212&gt; DNA

&lt;213&gt; Homo Sapien

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(982)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 34

acaacaatct	aagcaaatct	caaatacaac	atacttgtaa	ttagaacaca	atgcaatgac	60
ttgatttttag	caagaactag	acacttaatt	tggtaaaaga	aaccaaaaca	tgcatttat	120
tgaatactaa	gctaagttac	cataattagt	cttataaatt	ctcaaatttc	acaactactt	180
ttgaacatct	aaattttaaac	ctaaattttt	taattaaatg	cctgttcaac	aaagctaatt	240
ggaacaaaca	catttatgta	aattttacatt	ctagaatacc	agggtaaaca	aggagacgtt	300
attcaaagat	gaatgagaaa	gttctattct	ttttcatcat	ttgtgtgatc	aggttgcaaa	360
ggacatgctc	tttctctgat	gaaactgatg	tcgaattagt	ggcagagggtg	gaagaaccaa	420
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aaanggcgaa	ttccaagcaa	cactgggctg	gccgtttacn	nagtgggatt	cgngngctcg	660
gtancaaagg	ttgggggttaa	tcaaggggca	atagccgggt	ttcccngggg	tgaaaaatgg	720
tnntccngnc	acaantocca	nacaancatt	ccgaagccgg	gaancntnaa	agtgttaaaa	780
ncctgggggt	ngcccaaatg	angtggngct	naactcccat	ttaaattngc	gnnttgcgcc	840
nannggccng	cctttccaat	tnccgggaaa	cctgttncgt	gccaaagtcg	cantaaagaa	900
atcncggcna	antccccggg	gnaaagggcg	ggnttgccgt	nttggggggc	gncttccggg	960
tttcccgggc	caaagggann	ng				982

&lt;210&gt; 35

&lt;211&gt; 1024

&lt;212&gt; DNA

&lt;213&gt; Homo Sapien

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(1024)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 35

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cctaatacga	ctcactatag	ggctcgagcg	gccgcccggg	caggtataaa	atttaaaaaa	120
tttaaaaaaa	aagatttgca	aaatgtaagt	gtagatcatt	tgaacaagca	aaattaaagt	180
accactggg	ggaaatgtgt	ctgaatctta	ctcttctgga	tctgcaggat	tagggcttgg	240
aagtatgtca	aagatgcagg	gagtgtaaaa	gttttaggaag	attgtagagc	tgagagcaag	300
aagcagaaa	gagtgagtca	aagaaggag	tcctaataca	tcaccagatc	taggagggga	360
gaggagacag	acagaagaaa	acaccagagg	caagaactgt	agaaggccag	gtttctgaga	420
atgaattgag	cgggggtgtcc	tgagcagttt	ggaaaaggag	tttttgatgg	tatgggttag	480
gtgagggtg	gctgcatagg	aaggactgag	gttggagcgg	acatcgggaa	agctgagggg	540
cagtgagggt	tactacatgg	gaaaaggact	cttgaaacga	gaatcagttg	tgatgtcagg	600
gtgaactttg	tggttacatt	acttggtgtt	aacattggtg	gcagtggtta	gccccttttc	660
agaaaagcaac	ttgcttgtaa	gtcanggtgt	ccgggtccaa	ctttaactag	tgaaaaggta	720
gtaaccaatg	gtaaacagg	agaatgattg	gttnaaccct	atctgnggac	acttaaatgc	780

cactgggtta	aaaatggnaa	tcacgagttt	tgtancaacc	ggggnaatat	atttaccgga	840
acctttantg	ggnaaaagcc	ggncncnaa	ggntttttat	tncttcnggt	tttaacctta	900
acaggtncaa	tttataatgc	cgggccattt	aacagggtcat	ttttaacccg	gtcnnttttt	960
accnnggtta	aaaaanntnt	atgcctttag	gncaaaaanc	ttttnnnggg	gnttnttgtt	1020
nang						1024

<210> 36  
 <211> 1024  
 <212> DNA  
 <213> Homo Sapien  
  
 <220>  
 <221> misc\_feature  
 <222> (1)...(1024)  
 <223> n = A,T,C or G

<400> 36						
taccgctcg	natccctagt	aacggccgcc	agtgtgctgg	aattcgccct	tccatcctaa	60
tacgactcac	tatagggtc	gagcggccgc	ccggggcagg	tagcaaatgt	tgtggcattc	120
ctcctcctcc	tcaagtcttt	acccgaaact	acttcccaag	agaggttgct	cttcccaaag	180
aatcacctgc	cctggggacca	tatggggcta	ggctgagggg	caggagccaa	gagcctgggc	240
ccaactctgt	ctgtggctta	ctgtgagacc	ctaggcaagt	tgcttaccct	ctctggggct	300
caaattcttc	ctctttgaaa	taggaataat	aacttcatca	ctagaattct	tcacctgggt	360
gttgtgaagt	taatcagaat	aaatgtggag	ataatacatg	aatgagcgta	cagaatatta	420
tttggtctgt	ctgtggcatc	gatataggtc	atgatatgta	caatagtgtc	tgctattgta	480
ttccacacca	cttcttcctt	cagctaaagc	aggaaaagaa	aggaggtaag	tctctctgtg	540
ttttttcttc	ctttcccaaa	gccacttttg	ttaccttcct	tggttgctgg	atgagaaatt	600
agtcagaggg	tcagagagga	cctcaacttc	atatgcttta	aatagagcat	atgcaatttt	660
aaaccatcct	cttaaccaat	ttttcttttc	ttttcagttt	ttccccagtt	atacttccac	720
atgatacacc	agagaaggaa	gatcctttct	catactgaag	aacacaagaa	atttgaatag	780
ttcttgcttt	ctgnaccttc	cacccaaaaca	aacttttcaa	tgatccaaaa	aactggcttt	840
gnactgggga	gtcacgggaat	gggccggctt	ccangganca	tggcggnnng	gcctttgcgg	900
ngtcgggcct	gtggtggcgg	cggaaaggna	accgggggca	tggnttnccg	agcctggtct	960
tgccccccng	ggncatggtg	tggaggcaaa	gaancctgaa	gtccccacng	gcccccgga	1020
agna						1024

<210> 37  
 <211> 1024  
 <212> DNA  
 <213> Homo Sapien  
  
 <220>  
 <221> misc\_feature  
 <222> (1)...(1024)  
 <223> n = A,T,C or G

<400> 37						
cttggcaccc	cnctcggatc	cctagtaacg	gccgccagtg	tgctggaatt	cgcccttcca	60
tcctaatacg	actcactata	gggctcgagc	ggccgcccgg	gcaggtgaat	tcagcggccg	120
cttttttttt	tttttttttt	tttttttttt	acagggcggc	tttttgtttt	atttctgctt	180
ttttcccttt	ttcttaaaaa	aattaaataa	agtctctatt	atttcccaaa	tatacatcaa	240
atgagttttc	atgcaaagca	gcagtcacag	aggcagaact	gtccccagct	cgtgcctntc	300
ggcttgaaga	accaccttnt	cccggccccg	ggttctctgg	ngttctcact	gaggatggac	360
gacgcccact	gtctntccca	gctggaactg	gctatgacga	aacttggtctg	gcgtagggag	420
aggagtccct	ccctntcccc	aggatggggg	ctcaggggac	agcaagctct	ggggcctgat	480
ccccatcact	tgnccttcca	tctgagactc	ccagtgtgac	agcttggaca	ggtccctctt	540
cccaggaatg	cgaggctcct	cctctcagct	ctcaatggac	atggcattaa	tgagctgctc	600
cacgtataaa	gccagccgnt	gccgcgtg	ctgctcatcc	tgctctaggg	ccccgatgag	660
ctctcacta	tacttgctga	cataggagta	gatctcattg	ggggcactca	acatgttgaa	720
actccacggg	gtgcaggcgg	gactgctcgg	cgagggtagg	cattcatggc	ctggctcactg	780
gatggctggg	aaccttgggc	aaggctgcgg	nagnatcttt	ttccccagc	tnntggnaac	840
ttggggaagg	cccttgggca	taaaaagcaa	cttggttgga	anggggagg	ctttgcccac	900

cccgggggct ttggacgttg gaacaagagt nccttgaagg gtttgggncc cccncaaaaa 960  
ngcangcntc cgggaaagcc gcccttgggg gtgncaaaac cccnaactgg ggggttnttn 1020  
aanc 1024

<210> 38  
<211> 1024  
<212> DNA  
<213> Homo Sapien

<220>  
<221> misc\_feature  
<222> (1)...(1024)  
<223> n = A,T,C or G

<400> 38  
taccgccttc gcctccctag taacggccgc cagtgtgctg gaattcgccc ttccatccta 60  
atacgactca ctatagggct cggcgccgc cgggcagggt gccgcttttt tttttttttt 120  
tttttttttt tttttgcttc acaactgttt attttaagct gaaacttcaa tattcattga 180  
ttacctataa taatagttac tcataaatgt agttaataat taaatataaa aattattatt 240  
tttacattta tataaatctc tgaaaaatac caagttttga gagatagagc aagaaattgc 300  
ttanaaaatt gcaggaagcc tgaanaatct cagcatcagt caaagcagggt ncaacaaaaa 360  
acaattttag acattcattt tttgctttta gagtgcttaa aataaatgat cacagaatga 420  
ataactgatg tatggcaaaa atgagtttaa aactatgtaa gctccaaggc cccaatgtgt 480  
ataagaattc tttggaagga ttttgaagga ctgtaaattg tgcaataaaa agtaaaaaact 540  
agtagttagg caatgngttt taaactatag ngtcacctac tgntcttctg gtgcctaact 600  
gnattcttca acatcttctt ttcccttttg attagaaatc ctgggtctacc tcaaagggtt 660  
tgcattgntt tctagggaca tcagcaaaact ggtagccat atgagaaaaca gaaataaaca 720  
gtaatttat cttagaaaat taagcattat gtacncagt agaaatggat tgacttgata 780  
gaccttaaac ccctttcttc ctttcacacc ctttntagna ccacctaanng gtatccggat 840  
tggggatggg gcccncntnt ggtaatcccc cttnnagtcag gacagggggc cctaaggggc 900  
caattttntt tcgaattaga gaaatncccc atttttggg ggggttggca gtnttanccc 960  
anggcttgca aaggcttntt tttgaagana cncccaaacc cggggncctn tttttcngga 1020  
atca 1024

<210> 39  
<211> 1024  
<212> DNA  
<213> Homo Sapien

<220>  
<221> misc\_feature  
<222> (1)...(1024)  
<223> n = A,T,C or G

<400> 39  
tcgccccgagc agnangencn agcggncnnc agtgtgatgg ttatngtggn gnnttcgcnc 60  
tnccatncta atnctactca ctataggggn cntgngncnc nnggcnaagtn ntnacnnntn 120  
annnggtgtaa ctgatatcat ntncnanna ccattggttac atnnanntag gtctcnnang 180  
nataccangc tntgagagnt ngaccnggaa ntcgnttnga aannttgngc gangccngat 240  
caatatecnc atcngncaca gcggntccgc aagctgacaa tncctgnanat tnattnttgg 300  
tttannganc nnttacangn atggnncccn gagatgcatg nnggagtagt gcaaagatgn 360  
ntgtaaaaact atgtaagctc naaggcccca atgtgnataa cagttcnttg nanggantnt 420  
ganggantgt aagngntnaa nntnaangnn anannnaaga ggtangncat gagcccnaaa 480  
ctgtagnnt aactacagng cttangggcg ctacctggga caggcnacgn cttcattaac 540  
cttttgatta gaannacggg ggtaacncac nggttnngca tgggtccagta ggngcattgn 600  
ccngcngggc aaccatagc tngncncaaa taaacggtgc ttttanctca nnagattaaa 660  
gcttttttggc cacaggggna aaagnatggc ttganaggcc ttaaaccccc gtactcngtn 720  
caccctttn gagaaccncc taacgggatc tggaaatgng atggccccct nttgggaaac 780  
nccctanaag anacctcng ngacccttg nggcccatt tgangtttag nacngcaatt 840  
tncccathtt tngngttttt gccaacccca agncatnggc tggcaatgga ntgnnttttc 900  
caatagaanc aaaccgggn tnttttttgg ggggnatcag gggttaagggn nttggcaaaa 960  
nnaaannggc ncnnngnaaa aatttttccc nggtntatcn aaanncccca aagcttttng 1020



caan

1024

<210> 40  
<211> 1024  
<212> DNA  
<213> Homo Sapien  
  
<220>  
<221> misc\_feature  
<222> (1)...(1024)  
<223> n = A,T,C or G

<400> 40  
nggacgcatg ctcgagcggc cgccagnng atggatntng tgcagaantc gccctttcat 60  
gcctatgac cngcacttg gngaggccga ggatctcctc tctgggggat cacttgaggg 120  
caggagttaa gagaccatcc tggccaccat gatgaaaccc tgtcncctact nnacatacag 180  
gaagnagctg gncgngntgg catactctta caatcccagc tacttgggnag gntgangcag 240  
ganaatcact ngnacctang aagcagaggn tgcantngnn ccaanancac accactatac 300  
tntagcctgn acgacagagg tgntgataa agcnggaccc ctgactatat ncaggntttt 360  
ctgacntnna nnancncatc taaatnctac gccgtntgag gtcgcntagg ttangtagnn 420  
natnctnatt tatgaccaat atgntgtnan acggcntnnt gntnaaaant tntacagnan 480  
ggcngnctac nttincttata atngggaaaa cggtgntga natncangtg nnnnngtccn 540  
ttntntggna agaggnttng aaanncanca gtgcaccttn tgaactctac nagnagcttn 600  
tgaagctaac naagcnttaa natnagatgg cntgntagga ctgtacnngc anggaaagat 660  
tcacaaaact ggacattctt naccgagata ngntcttgct ttaccgggga ggacnnntcc 720  
aaggntgtnt naagagggac agtcagctta gtnntgctng ggtagagaaa accangactt 780  
natntgtgag cttgatnngc agaacctggn nanccttgga agagcntnga ttgncngat 840  
ccctgaaagg gcnnccttna ccctatcggg gacctnnna acctcttang tggcacgcaa 900  
ggcacnaacc nggcncnttt caagaatcnc nggaatcnag gccctttct tgggntnanc 960  
cngnnnnncc cgttnagncc cncgggnaaa anntcttggg nntttccaat ccngngggnn 1020  
nttt 1024

<210> 41  
<211> 1004  
<212> DNA  
<213> Homo Sapien  
  
<220>  
<221> misc\_feature  
<222> (1)...(1004)  
<223> n = A,T,C or G

<400> 41  
ggtnnnntta atcatcgccn gcttggtacc gagctcggat ccctagtaac ggccgccagt 60  
gtgctggaat tcgccccttag cggccgcccg ggcagggtact tcccaccact ggaaatgtta 120  
gcataaaaaga acttgagag gaaaaaagta ttaacaaaac tgcagtctgc actctttaa 180  
cctgtttaag gctcttcac ctggttagca aaaggtgtga atgtaatgtg atggaattta 240  
aaagttttat gagaccaggc acagtggctc acgactgtaa ttocagcagt ttaggaagcc 300  
gaagtgtgca gatcacctga ggtccggaga ccagcctggc caacatggtg aaaccctgtc 360  
tctactagaa atacaaaaat tagccagggtg tgggtggcggg cgctgtaat cccaactact 420  
caggaggctg aggctagaga atcacttgaa ccagcaggc ggagggttgcg gtgagtcgag 480  
atcacgccat tgcaactccag cctgtgcgac aagagcgaaa ctctgtctca aaaagatttt 540  
ataagaaagc agagcttttc cttgaagctc ttttgaagtgt gtagcttaat tagtattttg 600  
ntgaaaatac tttaaagatg cctagtgaag agcctactaa agtgctgtga aaaatggggt 660  
ttanaacatt ttattttcan gctttatggc ctattttcca ttgnggcaag tgcaaaacta 720  
ccctggccca aangaagggc agagaacata attacctctt anggcacatt tcattctttg 780  
cagctttgct taatccagtn gctaagttct ttacctnaac cctgnaggna ttgaacntta 840  
ttncatttn ngnaaaaggg tcacctntt nnnacaatnt tncannanct ttttnggaag 900  
ttanccnttg gccttaaaan ttnaaaantc cntntggnt tccctttatn ccccnhangg 960  
gnnnantang gnttgattt ttaangncc ttggcngaa cccc 1004

<210> 42

<211> 1020  
<212> DNA  
<213> Homo Sapien

<220>  
<221> misc\_feature  
<222> (1)...(1020)  
<223> n = A,T,C or G

<400> 42  
nnnnnnnnnn nnnnnngattg ggcctcttag atgcatgctc gagcggccgc cagtgtgatg 60  
gatattctgca gaattcgcgc ttagcgtggg cgccggccgag gtacctttga taattcctag 120  
acctctatctt tcattctgtg tattaatgtg aataacagat ggatatttta atatttaagg 180  
cagatggtaa acttttcctat aggtcttggg agacttcgtc ttataggctg aacaccattc 240  
acaaaatgta ataatgcttc attccttcag gttgaggtaa agaacttgag caactggatt 300  
agcaaaagctg caaagaatga aatgtggcct aagatgtaat tatgttctct gcccttcctt 360  
tgggcccaggg tagtttttga cttgacacaa tggaaaaatag gccataaaagc ctgaaaataa 420  
aatgttctaa accccaatct cacagcactt tagtaggctt ttcactaggc atctttaaag 480  
tattttcaac aaaataactaa ttaagctacc acttcaaaag agcttcaagg aaaagctctg 540  
ctttcttata aaatcttttt gagacagagt ttcgctcttg tcgcacaggc tggagtgcac 600  
tggcgtgatc tcgactcacc gcaacctccg cctgctgggt tcaagtgatt ctctagcctc 660  
agccttctgg agtaagttnng gaatacaggc gccccgncaa cacactggc taaattttgn 720  
atttctagta naanaccagg ttttnancat gttggncagg gctggctctc cggaaccttn 780  
angtgatctg gacacctttg gntttcctaa actgggtgga aattancagc gggaaccnct 840  
ggggcctggc tcattaaacc tttaaaatnc cttncattc anttncacc ttttggtaac 900  
cccgatgaa aacctttnaa ccgggtttta agnangcna nnnngggnat ttgtaaaaa 960  
ttttccent tccaagtcnt ttaagccaan nntttncng gnnnnnggan cctnccggc 1020

<210> 43  
<211> 1020  
<212> DNA  
<213> Homo Sapien

<220>  
<221> misc\_feature  
<222> (1)...(1020)  
<223> n = A,T,C or G

<400> 43  
ggagnnnnntt aaacgccagc ttggtaccga gctcggatcc ctagtaacgg ccgccagtgt 60  
gctggaattc gcccttagcg tggteggggc cgagggtactt tttactgctt tgtcttcaag 120  
gcctagtgtg ataattaaca tctagtatgt gtttgatgga tagccaattt ttgcttcatt 180  
ggtatgttgt taccacagtc attggtagag tcaatatatg aatgaagaaa gtataacaaa 240  
tttgccctct agtagagtag tttttttttt tttttttttt ttttggtttt tttttttttt 300  
tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt 360  
tttttttttt ngnnnttttn ncnttttttn aannaaaaan cggcccnann accnncnnc 420  
nnnttttttt nncnggccnn cengnttng gggngggggn cnttnnggc cnnngggnen 480  
cttttttcn naagggtttt ggggttttng gggnaaant tnggnncnan nnnngcccna 540  
aaaaanttnn gncnanaaa cgcnnnttcc nannnttnn cnttggggcc caaaaanttn 600  
cgnaaccnnaa tgggcnnaaa gggcnnntgnt ttttttgggg nccccnaaac canggggggg 660  
cnnaaaaaat gnccttgaa ntttttaaaa aacctntgg naaaancccc nngggttccc 720  
ccnnnnnccc ttanttttnn acanaanggn nnaaangggg ncccnnaaaa naccnttngg 780  
ggcctttttt tnacaaattt ggggnttttn aaaggggttt tngggggggc cctntatncc 840  
ccnaaaaang aaaggggnnc cccccnnnn nnnnnnnncc cnaancccc ggnnttttn 900  
ccnggggggg cccnnnaaaa ggggnaant ttnggnaaan nccnnnnncc ggggggnccn 960  
ttnaaanntc nntttnanng gggccnnnn nccccnnnn annggggggn nnaaaaaccn 1020

<210> 44  
<211> 1024  
<212> DNA  
<213> Homo Sapien

<220>  
<221> misc\_feature  
<222> (1)...(1024)  
<223> n = A,T,C or G

<400> 44  
nnngnnnnnn nngattgggc cctctagatg catgctcgag cggccgccag tgtgatggat 60  
atctgcagaa ttcgcccttt cgagcggccg cccgggcagg tacgcggggc tcggcgctgc 120  
ctacggaggt ggcagccatc tccttctcgg catcatggcc gccctcagac cccttgtgaa 180  
gccaagatc gtcaaaaaga gaaccaagaa gttcatccgg caccagtcag accgatatgt 240  
caaaattaag cgtaactggc ggaaacccag aggcattgac aacagggttc gtagaagatt 300  
caagggccag atcttgatgc ccaacattgg ttatggaagc aacaaaaaaa acaaagcaca 360  
tgctgcccag tggcttccgg aagttcctgg tccacaacgt caaggagctg gaagtgtctg 420  
tgatgtgcaa caaatcttac tgtgccgaga tcgctcaca tgtttcctcc aagaaccgca 480  
aagccatcgt ggaaagagct gcccaactgg ccatcagagt caccaacccc aatgccaggc 540  
tgccgagtgag agaaaatgag taggcagctc atgtgcacgt tttctgttta aataaatgta 600  
aaaactgcaa aaaaaaann nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 660  
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn aannccnnnn aaaaannnnn nnnnaaaaag 720  
gcttntttta angggcaaat tgggaaacct ttttnattca aaaatggctt ttnccangga 780  
ctggggacca nnttnccng gggncaaaaa ttgggnttcc cttaanccc nntncnnaan 840  
gggaattttt ncccttgggc cttgaaaaac naagcnnna aaaagncctt tgggnnggaa 900  
acccctttng ggggaatttc cncncnttg ggggggcnnt ntnnnnnggg acccnanttg 960  
gncccaantt ttggggaaaa nnnnggnnaa aaaggggnnc cctgggggaa aatgttnccc 1020  
ccca 1024

<210> 45  
<211> 1024  
<212> DNA  
<213> Homo Sapien

<220>  
<221> misc\_feature  
<222> (1)...(1024)  
<223> n = A,T,C or G

<400> 45  
ggagnnnnntn aatcatacgc cagcttggtg cagagctcgg atccctagta acggccgccca 60  
gtgtgctgga attcgccctt tcgagcggcc gcccgggcag gtacggcgca ttttgtgcac 120  
acaaaatgtg cgcacacaca cacacacaca cacacagaca ctccctgcaca tggcctgtta 180  
aagaactaca agggaggtgg gacgcgggaa agtgatgggt gtgggtttgc atcgtctcat 240  
cattgattct tctcatattt ttctctgatt agagaaaacta aagagaattt tgtgagaaag 300  
gcttgaaagt taatgagtta cttctaccaa agtgattaca agcagaaatc ctcagatgct 360  
gtagagatgc tgacccacac atccctagct caaggaagcc cctcgatta gtcacctca 420  
gccatcagca gcctccacca ttaaccccag tgtgctgtat aaaaaatact ttctacatgt 480  
gccccaaattt gaaaagttag gaagcactga tttcaaagca aatcattcac atttgaactg 540  
tcttcagtgt acctcgccg cgaccacgct aagggcgaaat tctgcagata tccatcacac 600  
tggcggccgc tcgagcatgc atctagaggg cccaattcgc cctatagtga gtcgtattac 660  
aattcacttg cgtcggttt tacaacgtcg tgactgggaa aacccttgcg ttacccaact 720  
taatcgnct ggagcacatt cccnttttg ccnactggcg taattaacca aaaaggnccg 780  
gaccgaatcg gccntttcca acaagttggg ccaacctgaa tnggcnaaan ggcccccccc 840  
tgtaaccggn gccattaaac ccccgncggg nnnntngggg tacccecaac ggggaccggt 900  
taacttgccc anggccttaa ggcccgtcc ttttggttn tncctttn ttttngccc 960  
ntttncngg nttttcccg aaagntntaa aaaggggggg tcccnttta ggggtcccaa 1020  
taaa 1024

<210> 46  
<211> 1024  
<212> DNA  
<213> Homo Sapien

<220>  
<221> misc\_feature

&lt;222&gt; (1)...(1024)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 46

nnngnnnnnn	nnnnnnngaa	ttggggccctc	tagatgcatg	ctcgagcggc	cgccagtgtg	60
atggatatct	gcagaattcg	cccttagcgt	ggtcgcgggc	gaggtacact	gaagacagtt	120
caaatgtgaa	tgattttgctt	tgaaatcagt	gcttcctaac	ttttcaaatt	tgggcacatg	180
tagaaagtat	ttttataaca	gcacactggg	gttaatgggtg	gaggctgctg	atggctgaag	240
gtgactaatg	cgaggggctt	ccttgagcta	aggatgtgtg	ggtcagcatc	tctacagcat	300
ctgaggattt	ctgcttgtaa	tcacttttgt	agaagtaact	cattaacttt	caagcctttc	360
tcacaaaatt	ctctttagtt	tctctaata	gagaaaaata	tgagaagaat	caatgatgag	420
acgatgcaaa	cccacacccat	acactttccc	gcgtcccacc	tccctttagt	ttctttaaca	480
ggccatgtgc	aggagtgtct	gtgtgtgtgt	gtgtgtgtgt	gtgcgcacat	tttgtgtgca	540
caaaatgcgc	cgtacctgcc	cgggcgcccg	ctcgaaagg	cgaattccag	cacactggcg	600
gncgttacta	agtggatccc	gagctcggtg	ccaagcttgg	cgtaatcatg	gncatagctg	660
nttccgtgtg	gaaattggta	tccgctcaca	attccacaca	acatacgagc	ccggaagccn	720
taagtgtaaa	agccctgggg	tgcctnatga	gtgagctaac	tccattaaat	tgcgttgccg	780
ctcactggcc	ggtttcagtc	cggnaaanct	gcggnnact	gcantaatga	atcggncaac	840
gccccggga	aaaaagcgg	tgcgaattgg	gccctntttc	cctttcttgg	ttaatggact	900
ccntnngnct	tnggccnttc	ggnttngggn	naacgggatt	aanttnnntt	naaagggggg	960
naanacgggt	ttncnana	aatcnggggn	aaacccccng	gaaanaaacn	ttggncccaa	1020
nggc						1024

&lt;210&gt; 47

&lt;211&gt; 1024

&lt;212&gt; DNA

&lt;213&gt; Homo Sapien

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(1024)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 47

ggngnnnnnn	aaacgccagc	ttggtaccga	gctcggatcc	ctagtaacgg	ccgccagtgt	60
gctggaattc	gcccttagcg	tggtcgcggc	cgaggtgcat	ctgaacattg	ccaagcccta	120
ggacattccg	tagagcttgg	ggattctgga	ccaattgggt	cagacaggac	acgaaatgcc	180
tgtttgatgg	gttctgcaat	taaacaccca	actactctct	tttcatcaga	tataaaaaga	240
aaagttttta	ttttgtttgg	acatttagga	acaacttgct	ggaagcccaa	ttcattatca	300
acaagtctct	ggacatcttc	tacctttttg	atagcaaagc	ttggatcatg	tggcagaacc	360
aacacgattt	toccatccca	aaactctgct	actacacggt	ctttcttcca	acccacatat	420
ttgattccct	ccagaaacct	tggtgtgatgc	tgtacctgcc	cgggcgggca	gggcgaattc	480
tgcagatata	catcacactg	gcggccgctc	gagcatgcat	ctagagggcc	caattcgccc	540
tatagtgaag	cgtattacaa	ttcactggcc	gtcgttttac	aacgtcgtga	ctgggaaaac	600
cctggccggt	acccaactta	atcgcccttg	agcacatccc	cctttcgcca	gctggcgtaa	660
taagcgaaga	ggcccgcnacc	gatcgccctt	tccaacagtt	gccgcagcct	gaatggcgaa	720
tggacgcccc	ctgtanccgg	cgcattaaac	cgcggcgggg	tnnttggggg	acccnccacg	780
gggaccggta	cactttgnca	agggccctaa	cggcccggtc	cntttcgctt	tcttnccttt	840
cntttnttgg	ccacgttngn	ccgggttttc	cccgtnaage	ttttaaaatn	gggggcttcc	900
cnttttaggg	gttccnaatt	aanggcttta	cgggaccctt	gaccccnaaa	aaactttnnn	960
tttnnggggg	gnngggntnc	ccntaggggg	ccattgnccc	ttgnnaaaaa	anggtttttt	1020
nncc						1024

&lt;210&gt; 48

&lt;211&gt; 1017

&lt;212&gt; DNA

&lt;213&gt; Homo Sapien

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(1017)

&lt;223&gt; n = A,T,C or G

<400> 48  
gnnnnnnnnga ntggggccctc tagatgcatg ctcgagcggc cgccagtgtg atggatatct 60  
gcagaattcg cccttgccgc ccgggcaggt acagcatcac cacaggtttc tggaagggaat 120  
caaatatgtg ggttggaaga aagaacgtgt agtagcagag ttttgggatg ggaaaatcgt 180  
gttggttctg ccacatgatc caagctttgc tatcaaaaag gtagaagatg tccaagaact 240  
tgttgataat gaattgggct tccagcaagt tgttcctaaa tgtccaaaca aaataaaaac 300  
ttttcttttt atatctgatg aaaagagagt agttgggtgt ttaattgcag aacctcatca 360  
acaggcattt cgtgtctctg ctgaaccaat tgggtccaga tccccaagct ctacggaatg 420  
tcctagggct tggcaatggt cagatgcacc tcggccgcga ccacgctaag ggcgaattcc 480  
agcacactgg cggccgttac tagtggatcc gagctcggta ccaagcttgg cgtaatcatg 540  
gtcatagctg tttcctgtgt gaaattgtta tccgctcaca attccacaca acatacgagc 600  
ccggaagcat aaagtgtaaa gccctggggg gcctaattgag tgagctaact cacattaant 660  
gcgttgcgct cactggccgc tttccagctn ggaaacctgt cgtgccagct gcattaatga 720  
atcggncaac gcgcggggga aaaagcgggt gcgtaattgg gcgctcttcc cgctttcttg 780  
nttacttgac tccttgggct tcggccgttc ggntgcggnn aacggnatte aacttactca 840  
aaaggcggna atacggtatt ccchngnaatc nggggataac ccccggaan aactttgacc 900  
naaaggcccc caaaaggccc ngaacccgna aaaaaggcgn cgnnnnnnnn ggggtttcct 960  
aagggtccgg cccctgggnn aggtttccca aaaatngnnn ccttnannnn nnnnnngg 1017

<210> 49  
<211> 1024  
<212> DNA  
<213> Homo Sapien  
  
<220>  
<221> misc\_feature  
<222> (1)... (1024)  
<223> n = A,T,C or G

<400> 49  
ggngnnnnnn anatnaaacg ccagcttggg accgagctcg gatccctagt aacggccgcc 60  
agtgtgctgg aattcgccct tgagctggcc gcccgggcag gtactgaaat tactctgaat 120  
tcagaaatgt aagtatatgc agctaggtca taaagacact gctttagaga agacatgtat 180  
tagtggaatg gaacaggtaa catctttgag aagtcaatga gttctgcatg cagggatttc 240  
accatcgga tgatggcaag aatgatgect gcctgtgtgc ttctcagagg acgtataaag 300  
ccactgagga tgagtgtac agtgcttgtg aattgtgggg ccacagacat ttaagttggc 360  
attgcttttc tcctcctctg cttaatccac ctttataaat atggcagatg gcttaagaca 420  
ggcatcatca gcattctctg agatgtgggc tcagagggca agtggggggc gtggggggtt 480  
ccactagagg gagggaaagt tctgtttccc atgtgttagt tgtagttgtc tttgtgcttc 540  
accagaaaag aggtagatg cgacacctca cactaagagc ccgaaattgt gggtcagtac 600  
tttttttttt tnnntttttt tggtnntttt tnnnnnnnnn nnnnntnnnn ngnnnnnnnt 660  
tnntttnnnn ngnnnnnnnn nnnnnnnnnn ttnntnngg nnnncnctn nnnnnnaann 720  
nnnnnnnnnn nnnnnnnnnn tngnnnnnnn nnnnncntn ngggnnnang ncccnannnn 780  
nccnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnccnannn nnnnnntnn 840  
nnnaanncnn tnnnnnnnnn nnnngnnnnn nnnntttnnn nnnnnnnnnn nngnnnaann 900  
nnnnnnnnnn nnnnnnnnna annnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 960  
nnnnnnnnnn nnnanngggn nnnncccnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnntt 1020  
nngg 1024

<210> 50  
<211> 1024  
<212> DNA  
<213> Homo Sapien  
  
<220>  
<221> misc\_feature  
<222> (1)... (1024)  
<223> n = A,T,C or G

<400> 50  
ggagnnnnnn nntnngant gggccctcta gatgcatgct cgagcggccg ccagtgtgat 60

```

ggatatctgc agaattcgcc cttagcgtgg tcgcggccga ggtacactga cttgagacca 120
gttgaataaa agtgcacacc ttaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 180
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 240
aaaaanaana ntataaaaaa tttnaaggta aagntnncnn ntnaaaatct tttaggggna 300
tccttatann nnttttcggn tntttnnngg ntngnccctc nntnccnnt tttttnggna 360
anccnaann cccngnctta cennatgngn cananttaa anggtncnt nttngnggga 420
nctcannncc cccgcnttt tntnngggg ggnttncca nngnggngna aatgcncngc 480
tnatnaanan gggnttntc cnaaatnngn naanccctga ggnggnaanc ntntggngct 540
tntnncngat tnnngnaccc cncnngcag anntcnttgn nnccttantn ccgggggnta 600
nacccttctc ttaaaancnc nntgntntna aaaannnttt ncctgancna tcgggntaaa 660
ncnnnttttt tgaaaaccnn ggctttttnn aanangctcc gntnggcnaa ctttggggaa 720
naaggntttt ttttaggcct tgcttttttag ggccanccta angngannnn ncngttgngct 780
tgnnngatgg ttttagggg ttcccgggtg ggacnttnt tggggggaaa ttttggngcn 840
aggggntccc cttnaagaaa tccnntttcc nggncncnaa ttncnnaaa aattnngggg 900
ccnaaanntt tnattgggaa ggncctttgg ttgccccnt aaangngccn naaaccttta 960
aaangggggg gcntttaatg gcncctttcn ggccccnaaa aaanggggnc ccccnnttt 1020
nagg 1024

```

```

<210> 51
<211> 1024
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1)...(1024)
<223> n = A,T,C or G

```

```

<400> 51
gngnnnnntt aactcccgct tggtagcgag ctcggatccc tagtaacggc cgccagtgtg 60
ctggaattcg cccttagcgt ggtcgcgcc gaggtacttt tttttcttt tctttcttt 120
tttttttttt ttttaatttt gagatggagt tttgctcttg ttgcccacgc tggagtgcaa 180
tggcgcaatc ttggtcatt gcaacctcca cctcccgat tcaagcgatc cttctgcctt 240
agcttcccaa gtagctggga ttatagacgt gtgccaccat tccagctga tttttgtatt 300
tttagtagag atggggtttc accacgttgg ccaggttagt ctggaactcc cgacctcatg 360
tgatccctcc accgcagcct ccaaaagtgc tgggattaca ggcgtgagcc accatacccg 420
gttgattgta gacttttgat tggattttac aaggacccat gagaggcaac aaagagaagt 480
tgtcaagaga acagaccctg agaccaatag tttggctcaa gctctggctc cctaacttcc 540
taccagtttg accttgggca agttacctaa catctttgtg cctccatttt ctatttgtaa 600
aaggaaacta atagtagtgc ctactttata atagagttat taaaaatatt aaatgagtta 660
atatttgaag agtaattaga aaaatgcctg gcacttcaaa agcagccttc atttattctt 720
tggaaataat tttaaatgaa ttcaagggtt atatgtagct tttaggcata tatnctaaa 780
tggcactgta aaactgcana aatatccgat ctttaaaaaa ttttgggtaa atttatcata 840
atatggnaac caaatcccat ttaatggctt ttagggttan ccgatnaaaa ccngaagttt 900
gcagttttaag ccncttatgg aangggaccc gaaattccaa gganccannn gggaaaaaac 960
cccngagga atnttggccg ntttaantta aanccttttg gtnntttaag nncctaaaaa 1020
nttt 1024

```

```

<210> 52
<211> 1024
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1)...(1024)
<223> n = A,T,C or G

```

```

<400> 52
gngnnnnntt tnnnttcng antgggccct ctatagcat gctcgagcgg ccgccagtgt 60
gatggatgc tgcagaattc gcccttcgag cggccgccc ggcaggtact tcaaaactat 120
tcataagcaa aaatcagtg caaaaatatt tagtaactta aaaaaacaa aaagtataag 180

```

```
tagagacgga caagaactcc tccgtcttcc tcccactggg ctcacgtat ttctgttcca 240
ttacataaga gactaaaact gacaaactct gttttatcgc taacaccta aagcaataaa 300
tgtgatttgt taccatatta tgataaaatt taacaaaaaa attttaaaga tcggatattc 360
tgcagtttac agtgacattt atgtatatat gcctaaaagc tacatataaa ccttgaattc 420
atttaaaatt atttccaaag aataaatgaa ggctgctttt gaagtgccag gcatttttct 480
aattacttta caaatattaa ctcatttaat atttgtaata actctattat aaagtaggca 540
ctactattag ttctctttta caaatagaaa atggaggcac aaagatgtta ggtaacttgc 600
ccaagggtcaa actggttagga agttaggagg ccagagcttg agccaaacta ttggtctcag 660
gggtctgttc tcttgacaac ttctcttgn tgctctcat gggtccttgt aaataccaat 720
caaaagtcta caatcaaac gggtatgggg ctcacgcctg taatcccagc actttgggga 780
ggctgcgggtg gggaggatcc ccatgagggt ncgaggttcg agactagcct gggccaacgt 840
ggnggaaacc ccactntac taaaaattcc aaaatcanct ggggaaggng ggcacacgtc 900
tataatccca cttccttggg aagcttaagg ncnaaggac gcttggaaac ccggaanggn 960
gnggttcaat ggancceaaa atnggccatt ggnctttcnc gngggccaac angagccaaa 1020
ntcc 1024
```

<210> 53  
<211> 1024  
<212> DNA  
<213> Homo Sapien

<220>  
<221> misc\_feature  
<222> (1)...(1024)  
<223> n = A,T,C or G

```
<400> 53
gggnnnnnnn tnncttaacg cccgnttggg accgagctcg gatccctagt aacggccgcc 60
agtgtgctgg aattcgccct tagcgtgggc gcggccgagg tacattactt ggtgttaaca 120
ttgttggcag tggtagcccc ttttcagaaa gcaacttgct gtaagtcagg gtgtccgttc 180
caaccttcag ctagtgaaaa ggtagtaaca aatggtaaac aagagaatga ttgtttaaac 240
ctatctgtgg acacttaatg caactgttta aaaatgataa tcacgagtta tgtagcaacg 300
tggaatatata ttacagaac attaaagtga gaaagcagga cacgaaagta tatttatact 360
acagttataa ctcaacagtt catttatatg ctgttcattt aacagttcat ttaaacagtt 420
cattataact gtttaaaaat atatatgctt atagtcaaaa gctgttgttg ttgtgtgtgt 480
gtaggcttat agttgagcat tttttctta aatttcttga atgttcttta tggtagtggt 540
actaaaaagt ttatgatcac attttcattg tgaacataat ttgaactcat tatcacacac 600
ttggaataa cagaaagtgg gaggaaaaaa aatcataat ccaccatcca aagacatata 660
ctctctctct atcttgntca ttcttggttc tngcacagg tttatgatta taactgngtc 720
aaaatgtata ttcaaaatag ctggtacatt accttngngg nattatgggt aaatctttca 780
ctttaatttt ttcaagggtc cctatnataa tggcccgagt aaccgnggga ttttaaggggg 840
ctcccatggn ggccataatn cataaccnga ggaaaaattn naaaattaag gnaantattt 900
ttaaaaaatt ncctatattt cccaaaacct aacaactact ggtaaaaatn ttggaccggn 960
tccccctatt ntnggttaan ggcccacct ttgggnaaaa ccggggtnaa aaattggggc 1020
ctaa 1024
```

<210> 54  
<211> 1024  
<212> DNA  
<213> Homo Sapien

<220>  
<221> misc\_feature  
<222> (1)...(1024)  
<223> n = A,T,C or G

```
<400> 54
ggagnnnnnn ttnggttttg gccctctaga tgcagtctcg agcggccgcc agtgtgatgg 60
atatctgcag aattcgccct ttccagcggc cgcccgggca ggtacttttt tttttttttt 120
tttttttttt ttacatttat gcatacttat cactaacacc ctaataatca cagactagt 180
cacagatcaa gatgttaaca gttaattggt gttgggtgtt gggaatatgt gtgaattttc 240
tttactgaat ttccaaagt ttgtatgagt atgtattata ttgtaatgg aaaatacata 300
```

cataaaatttt	attaccaaaaa	caccaaaagat	tattttaagga	atttgagaca	aaatattttaa	360
ccaaaattccc	acaatgacaa	cactattttta	gttatttttcc	acatcttttc	atttaagact	420
ttatgcacac	atatttaaca	ctgttatcac	aagcgtgtgc	actgaaacaa	gatagaggaa	480
acagatcaag	atggttagcag	tagttggttag	gtggtgggaa	tataggtaat	tttttaaaat	540
aatttacttt	atttttcta	ttttcctctg	ggtatgtatt	atgcacacca	atggagacac	600
acataataca	ctgttatcag	gacattatta	tagggaacat	ttgaaaaaat	taaagtga	660
gtattttaacc	ataattccac	aaaggtaatg	taacagctat	tttgaatata	catttttgaca	720
cagttataat	cataaacctg	tgcacagaaa	cnagaatgaa	cnngattaga	ngagagtata	780
tgtctttgga	tgggtggggat	atgaattttt	cctncacttt	tctggatttt	nccagtgtgn	840
gaaaaatgag	ttccaaaata	tggtcncaat	ggnaaatgng	ancntnaacc	ttttagtanc	900
ccttncccttn	aggaacatttt	caggaaantt	tannaaaata	anggctcaac	ttttaggcct	960
acannancaa	ccccncaaaa	ggnttttgac	tntttanccn	tntatatttt	taaccggttt	1020
taan						1024

<210> 55  
 <211> 1024  
 <212> DNA  
 <213> Homo Sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(1024)  
 <223> n = A,T,C or G

gnngnnnnnn	ttaactccag	cttggtaccg	agctcggatc	cctagtaacg	gccgccagtg	60
tgctggaatt	cgcccttagc	ggcgcgccgg	gcagggtacct	cacatgggaa	acatgggaag	120
taaaaccacc	tgaggagcct	cttgatggtg	agtcaggctg	ttcctcgaag	agtaggctgt	180
gactgccaaa	ctttgttagt	taaggagtat	ttataatgat	ctttgaggaa	actgcaactg	240
acaattgagg	gaaaaaaatg	ttagttcatg	actgcaaaat	acatgacaga	atcacaaaaa	300
ctatttttaca	agtttaaaaa	acaaaacctga	tgctgatgca	tggcaggcga	accccaaagt	360
ggggcttagc	ctgcaagggt	tcttggtctc	accagggaaa	ggattcaagg	gcaagccagt	420
ggtaagggtg	aagaaaacac	ctttatcaaa	gcaacactgt	tacagctcct	gtggggtcac	480
agctcagtgga	ctgctcccag	ggttgccccca	taggcagggt	gccgagagta	gcagctgagc	540
ccagttttgc	agtcatatgt	atacctactt	ttaattacat	gcagattcag	gggtgggttg	600
cgcagaaatt	gttaggaaaa	gggtgggtaac	ttttgggtca	tcagggtcatt	gccgcttaaa	660
gtggtggtta	tgccctgagtt	ttgccatggc	aatggtaaac	tgacaaggca	cgtgctttgg	720
tgtgtcttac	agaaaagctgc	ttncgctctg	nccttggtta	nctagccctc	gancntttgg	780
ttgtaaatga	accaagagaa	gtcaccggcc	cttgccgttt	tcttcccaga	agtacccttg	840
ggccgggaan	cacgcttaag	ggccaaattc	ttgcagatat	ccatnacact	tggcnggncc	900
gnttcancct	tgcattttaa	aaggggcccaa	tttgnccctt	taaaaggagt	cgantaccaa	960
ttnnntggg	ccgcgtttta	acaacgtnnn	ggacttggga	aaaanccctg	ggttacccca	1020
antt						1024

<210> 56  
 <211> 1024  
 <212> DNA  
 <213> Homo Sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(1024)  
 <223> n = A,T,C or G

gnagnnnnnn	ttngtttnca	gantgggccc	tctagatgca	tgctcgagcg	gccgccagtg	60
tgatggatat	ctgcagaatt	cgcccttagc	gtgggtcgcg	ccgagggtact	tctgggagaa	120
aacgccaaag	ccgtgactct	cttgctcatt	tacaaaacaa	agatcgaggg	ctagctaaac	180
aaggacagag	cggaagcagc	tttctgtaag	acacaccag	cagcgtgcct	tgtagttta	240
ccattgccat	ggcaaaaactc	aggcattacc	accactttca	gcggcaatga	cctgatgacc	300
caaaagttac	cacccttttc	ctaacaattt	ctgcgcaaac	caccctgaa	tctgcatgta	360
attaaaagta	ggtatacata	tgactgcaaa	actgggctca	gctgctactc	tcggcaccct	420



```
gcctatgggg caaccctggg agcagtcact gagctgtgac cccacaggag ctgtaacagt 480
gttgctttga taaaggtggt ttcttccacc ttaccactgg cttgcccttg aatcctttcc 540
tgggtgaagc caagaaccct tgcaggctaa gccccacttt ggggttcgcc tgccatgcat 600
cagcatcagg tttgnttttt aaacttgtaa aatagttttt gtgattctgt catgtatttt 660
gcagtcataa actaacattt ttttccctca attgcaagtt gcagtttcct tcaaagatca 720
ttataaatac tccntaacco taaaaagttt ggcaagtcac agnctactct ttgaggaaca 780
agcctgactt accatcaaga agcttccttn anggggntta cnttccatgg tttcccatgg 840
tgaaggancc tgncccgggc ggccgnttaa gggcgaaaatt caacacactt gggngggcgn 900
tnnnntaang gatccnaact tggganccaa annnttgggg naaannatgg gnnnnnaact 960
ggnnnccggg ggggaaaatg gtatnccgnt tccaatttcc ccncnanntt tnnaancccg 1020
gaan 1024
```

```
<210> 57
<211> 1024
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1)...(1024)
<223> n = A,T,C or G
```

```
<400> 57
gngnnnnntt nantnaacgc cagcttggtg cggagctcgg atccctagta acggccgcca 60
gtgtgctgga attcgccctt agcgtgggtc cggccgaggt actcatcact gacttgaagc 120
ttagtatctg gcttccctaa ggatgtaact ttcattgtaac agattaataa cttatatgaa 180
aaccaacaca accatatggt tagggctgga aagggccatg acgcctgggt atttttcctg 240
ttttaccctta ctcttatgtg tgtcacactt catcaattcc ggaaacagtt tctggagatc 300
tcctcattac ctcttttaca atcacctcac tccagcatgg tgtctgttac ctcttcccac 360
ttgtgacaat gtctagtaag gtccactctc cactctgtgt gatgaccact tattacaacc 420
ctcagaatag gggacagtgg tgtgcccctt gcaatacaat ggtttctatc tcttgatact 480
tttattacac ctctagcagg atgtcttctg atccctcctta ttgatttttc cctcacgatg 540
atgaacaatt atctcccgtt actcacctag cagtatctaa ctgtccctaa cacagcatgt 600
gggaatgccc tcaatacggg ggatgctgnt aactttcttc ctcccccctc ggcaatggcg 660
gtgacttaca atgaaccata atggccacat ttcccaactg natttttgga cctcttctgn 720
ccccttcttt ctagganccc agttaaaaaa aaaaaaccaa aactagcccc aatgncctgt 780
atgcccatta atcacttacc cagggtctgan ccttncatta aanttttgat gggatctctt 840
tggnntccca attggccggt naacccaagn ctgntggatt cccaanttnc cccattgntt 900
taatgcgggt ccttaancca ncccttggtt actggacctg gccngggngg gcccttttaa 960
aaagggcaaa ttntggagaa aatnccctnc acttgggggg ccnttnnaac atggcntttt 1020
aang 1024
```

```
<210> 58
<211> 1024
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1)...(1024)
<223> n = A,T,C or G
```

```
<400> 58
gngnnnnntt nngtttgccc ctctagatgc atgctcgagc ggccgcccagt gtgatggata 60
tctgcagaat tcgccccttc gagcgccgcg ccgggcaggt acagtagcca agggtgacta 120
aggaaccgca tgaagcaatg tgggaaattg ggaatcagca gacattgggt taacggggaca 180
atggggagcc aagagatacc atcaaaattt aatggagggg tcagacactg tgttagtgat 240
taatgggcat caacagacat tgggctagtt tttgtttttt ttttttaact ggggtcctag 300
aaagaagggg acagaagagg ttccaaaata cagttgggaa atgtggacat tatggttcat 360
tgtaaagtcac cgccattgcc tgagggggaag gaagaaaagt aacagcatcc accgtattga 420
gggcattccc acatgctgtg ttagggacag ttagatactg ctagggtgagt aacgggagat 480
aattgttcat catcgtgagg gaaaaatcaa taaggaggat cacaagacat cctgctagag 540
```

```
gtgtaataaa agtatcagga gatagaaacc attgtattgc aggggggcaca ccactgtccc 600
ctattctgag gggttgtaata agtgggtcatc acacagaatg gagagtggac cttactagac 660
attgtcacaa gtgggaagag gtaacagaca ccatgctgga ntgagggtgat tgtaaaagag 720
gtaatgaaga gatcttccag aaactgtttc cggaattgat gantgtgacc cnccttaaga 780
ntaaggtaaa acaggaaaaa tggncagggc gtnatnggcc cttttcagnc cttaaccttt 840
attgggtgggg tggtttcata taagttaant aatctggtn cctgaaagt ttcttccttt 900
anggaaaccc gantcctaan cctttnaagt ccnnggatga gacccttgn ccgggaaccc 960
cccttaaggg cgaaattccn ncccacttgg gngggcctnt ncttaaggg acccaacttg 1020
ggcc 1024
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<210> 59  
<211> 1024  
<212> DNA  
<213> Homo Sapien

<220>  
<221> misc\_feature  
<222> (1)... (1024)  
<223> n = A,T,C or G

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<400> 59
gagnnnnnt taactcccgc ttggtaccga gctcggatcc ctagtaacgg ccgccagtgt 60
gctggaattc gcccttagcg tggctgcgggc cgaggtagct gggtttcttt caactcttca 120
atttcccatc ttccatcgta tattgaaatt tctcatcca tgtaactttt ctttgccttt 180
gataagaccc atccagccaa cttccacta tcaaaagttt ctgcaaaata tacttctcct 240
ataggttgag gtgtcttata tttaatctct gaggaagtt cactttcatt aacatcaatt 300
tcttctgaat tttcttcaaa gtcttccgtc tcaacatcat catccataaa ttctgcatta 360
attgagatga acagaagacc caaacataac caaaaggctt ggaaatgcat attgattatc 420
tctcttgccg cctgttttcg gcagtgcag ctcagatgct caagtctgtg ccacttggtc 480
cccgctctc ttcagaccag tccccccgc gtacctgcc gggcgccgc tcgaaagggc 540
gaattctgca gatatccatc aacttgccg ccgctcgagc atgcatctag agggcccaat 600
tcgcccata gtgagtcgta ttacaattca ctggccgtcg ttttacaacg tcgtgactgg 660
gaaaaccctg gcgttaccca acttaatcgc cttgcagcac atccccctt cgccagctgg 720
cgtaataacg aaaagccgc accgatcgcc ctttcacag ttgcgcagct gaatggcgaa 780
atggaccccn cctgtancg gcgcattaan ccnccngcng gttntgggg taccaccaac 840
ggggaccggt acactttgnc aagggcctaa cgnccggttc ntttggtttc ttnccctttn 900
ttntngcac gttngnccgg ntttcccggt naagctttaa aatngggggc ttcccccttt 960
anggtcccn aataaagggt ttacggganc ttgaaccccc aaaaaacttt gnnttnaggg 1020
ggga 1024
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<210> 60  
<211> 1024  
<212> DNA  
<213> Homo Sapien

<220>  
<221> misc\_feature  
<222> (1)... (1024)  
<223> n = A,T,C or G

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<400> 60
gnnnnnnntn ngttncngaa ttgggccctc tagatgcatg ctcgagcggc cgccagtgtg 60
atggatatct gcagaattcg ccttttcgag cggccgccc ggcaggtacg cgggggggac 120
tggctctgaag agacgcgggg accaagtggc aacgacttgg acatctgagc tgtcactgcc 180
gaaaacaggc cgcaagagag ataatacaata tgcatttcca agccttttgg ttatgtttgg 240
gtcttctgtt catctcaatt aatgcagaat ttatggatga tgatgttgag acggaagact 300
ttgaagaaaa ttcagaagaa attgatgtta atgaaagtga actttcctca gagattaaat 360
ataagacacc tcaacctata ggagaagtat attttgcaga aacttttgat agtggaaagt 420
tggctggatg ggtcttatca aaagcaaaaga aagatgacat ggatgaggaa atttcaatat 480
acgatggaag atgggaaatt gaagagttga aagaaaacca ggtacctcgg ccgcgaccac 540
gctaagggcg aattccagca cactggcggc cgttactagt ggatccgagc tcggtaccaa 600
gcttggcgta atcatggtca tagctgtttc ctgtgtgaaa ttgttatccg ctcacaattc 660
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cacacaacat	acgagcccg	aagcataaag	tgtaaagccc	tgggggtgct	aatgagtga	720
ctaactcaca	ttaaatagcg	tgcgctcact	ggcgcgtttc	cagtcnggaa	accctgtcgt	780
gccagctgca	ttaatgaatc	ggccaacgcc	ccgggggaaa	aagcggnntg	cgtattgggc	840
gctcttccct	ttcttgntta	cttgactcgc	ttgggcttcg	tcgttcggct	gcggcnaacg	900
gnatcagctt	actcaaangc	gggaaatacg	gtantcccca	gaatccnggg	gattaccccn	960
ggaaaagaac	ctgtgagccn	aangggcccc	aaangggccn	gaaccntaaa	aaangggccc	1020
tnnn						1024

<210> 61  
 <211> 1024  
 <212> DNA  
 <213> Homo Sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(1024)  
 <223> n = A,T,C or G

<400> 61						
gggnnnnnnt	tncttacacg	cccgccttgg	accgagctcg	gatccctagt	aacggccgcc	60
agtgtgctgg	aattcgccct	ttcgagcggc	cgccccggca	ggtacaaaatg	gttttatgtc	120
accaattttg	ctgcaagaat	gggaactgct	tttaaactcg	taaatagctc	ttaacatttg	180
ttgtatgcac	tcttttctta	ctatggctgt	caacacttgt	gtagggttta	atttctaaat	240
tgttggcatg	ttctttttct	caggctattc	agaagtaaca	acatttttca	tttcagacat	300
gcaatcacct	attaatgatg	aaatatttta	ccactttggg	aatattttaat	tagtttagtc	360
atggagaata	cttccacat	tttaagattt	ttcaaatac	actgtcattt	ctatttttagc	420
attttatcaa	attattgctt	ttttatttta	taataaggct	taagacagat	tatagacctc	480
cttaagagat	gagtttcttc	ttctaaaaat	gcatgttgat	agaggactat	ttaggctaata	540
cggagggaatc	attaagaaaag	aaagttttaa	cactgtttat	ccctatctgc	tttccttgca	600
ctttttctgt	gaaaaatatt	ttctgtttgc	aaaatcttcc	ctgagttctg	aaccagcac	660
catcagtacc	tcggccgcga	ccacgctaag	ggcgaattct	gcagatatcc	atcacactgg	720
cggccgctcg	agcatgcac	tagaggcccc	aattcgccct	atagtgaatc	gtattacaat	780
tcaactggccc	gcgnttttac	aacgtcgtga	ctgggaaaac	cctgcgtta	cccaacttaa	840
acgcccttgc	agcacatccc	ccttttgncc	aantgcgtaa	ttaccaaaaa	ggcccgnaac	900
gaacggccnt	ttcccaaagg	tggcncaacc	ctgaaatggc	aaatggggcc	cccccttgaa	960
ccggngccnt	taancccccc	nccgggnntt	tnggggtccc	cccacggnga	nccgttaaac	1020
ttgc						1024

<210> 62  
 <211> 1024  
 <212> DNA  
 <213> Homo Sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(1024)  
 <223> n = A,T,C or G

<400> 62						
gnagnnnnnn	ttngnttgg	gcctctaga	tgcagtctcg	agcggccgcc	agtgtgatgg	60
atatctgcag	aattcgccct	tagcgtggtc	gcggccgagg	tactgatggg	gctgggttca	120
gaactcaggg	aagattttgc	aaacagaaaa	tatttttcac	agaaaaagtg	caaggaaagc	180
agatagggat	aaacagtggt	aaaactttct	ttcttaatga	ttcctccgat	tagcctaaat	240
agtcctctat	caacatgcat	ttttagaaga	agaaactcat	ctcttaagga	ggtctataat	300
ctgtcttaag	ccttattata	aaataaaaaa	gcaataatgt	gataaaatgc	taaaatagaa	360
atgacagtga	tatttgaaaa	atcttaaaat	gtgggaagta	ttctccatga	ctaaactaat	420
taaatatttc	caaagtggta	aaatatattca	tcattaatag	gtgattgcat	gtctgaaatg	480
aaaaatgttg	ttacttctga	atagcctgag	aaaaagaaca	tgccaacaat	ttagaaatta	540
aaccttacac	aagtgttgac	agccatagta	agaaaagagt	gcatacaaca	aatgttaaga	600
gctattttaca	gatttaaaag	cagttcccat	tcttgacgca	aaattgggtg	cataaaacca	660
ttgttacctg	ccccggcg	ccgctcgaaa	gggcgaatc	cagcacactg	gccgnccgtt	720
acttagtgga	tccgagctcg	gtccaagcct	tgcgtaaatc	atggnccata	ntggttcctg	780

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nggtgaaatt ggtatccccg tcacaatttc nccccancat acgaanccgg aagccntnaa      840
gngtaaaaanc cctgggtggc ctaatgagtg aactaactca catttaaatg cgtgcgctta      900
ctggccccgtt ttccaatcng ggaaanctgt cnggccact ggntttaang aatcggccan      960
gccccnnggg gaaaaaagng gttgcnnatt gggccctttt tcggttcctt ggttantgga     1020
atcn                                           1024

```

```

<210> 63
<211> 1024
<212> DNA
<213> Homo Sapien

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<220>
<221> misc_feature
<222> (1)...(1024)
<223> n = A,T,C or G

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<400> 63
gagnnnnnnt taacnccccg ttggtaccga gctcggatcc ctagtaacgg ccgccagtgt      60
gctggaattc gcccttagcg tggtcgcggc cgaggtacat tgacttcatt actaaagaac      120
aaaaatgttc atttttgtcc cagtaaatgg agactgcttg tacttttttt tttttttttt      180
tttttttttt ttattaaaaa actgagtttt atttcacatg tataattttg tctccccacc      240
atttccatgt ctgaccacgg ctactactat gtccatcat aacattccat acatacttaa      300
aaccaagcaa aggggtggagt tccatcttta aaaactaaac ggcatttttg acaacacatt      360
cttggcaata naacctggac aacatttatc aaacacggta gggaaagtgc tcaactctga      420
ttataaaaag gacagccaga tatcaactgt tacagaaatg aaataagacg gaaaattttt      480
taacaaattg tttaactat tttcttaaag agacttcctc cattgccaga natcttgaat      540
agcctcttgg tcagtcatcc ggaagcaatt ctccacataa ttgatgaatt tggettccac      600
tttgggaaga gaaccacctt tttctatact tgcttgcat tttgctttaa tgncttctac      660
agaactaggt ccttttgng ttttaggagt ttttctctgn ttcttgaagg attcttggcc      720
ttttgancct ggggttgaaa ganggnnttg agtcttttca ttctgaattg acttttgggc      780
atttttggct ggagnatctc ggatagattt ctccactggg gctttttctt nagntttcct      840
catatcaaaa tcntcatcat catcancttt atnaanatcc cctttaatna anacggnat      900
tnatntttat tnagcngcaa ggtttacttt tttctgggg gaanccttgt tancccttt      960
cagggggcaa aaccggtttt ccaaaaatnc ccttaanaat ttnccaaanc cncncncntt     1020
ttaa                                           1024

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<210> 64
<211> 1024
<212> DNA
<213> Homo Sapien

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<220>
<221> misc_feature
<222> (1)...(1024)
<223> n = A,T,C or G

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<400> 64
ggagnnnnnn ttnngtttcc gaattggggc ctctagatgc atgctcgagc ggccgccagt      60
gtgatggata tctgcagaat tcgcccttag cggccgcccg ggcaggtaca gccaacgggt      120
tcctttgggg gctttgaaat aacaccacca gtggtcttaa ggttgaagtg tggttcaggg      180
ccagtgcata ttagtggaca gcacttagta gcttgaggag aagatgcaga gtcagaagat      240
gaagaggagg aggatgtgaa actcttaagt atatctggaa agcggctctg ccctggagggt      300
ggtagcaagg ttccacagaa aaaagtaaaa ctgctgctg atgaagatga tgacgatgat      360
gatgaagagg atgatgatga agatgatgat gatgatgatt ttgatgatga ggaagctgaa      420
gaaaaagcgc cagtgaagaa atctatacga gatactccag ccaaaaatgc acaaaagtca      480
aatcagaatg gaaaagactc aaaaccatca tcaacaccaa gatcaaaagg acaagaatcc      540
ttcaagaaac aggaaaaaac tcctaaaaca ccaaaaggac ctagttctgt agaagacatt      600
aaagcaaaaa tgcaagcaag tatagaaaaa ggtggttctc ttcccaaagt ggaagccaaa      660
ttcatcaatt atgtgaagaa ttgcttcagg atgactgacc aagaggctat tcaagatctc      720
tggcaatggg agaagtctct ttaagaaaaa agttttaaacc atttggtaaa aaattttccg      780
tcttatttca tttctgtacc agttgatatc ctgctgtcct ttttataatg cnaagtggag      840
aactttccct accggtttgg ataaatgttg gncaggttct attgcccaag aatgtgtgnc      900

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ccaaaatgcc cgntagtttt tnaagatgga acttcacccn tttgcttggg ttttaagtatg 960  
nntngaangt ntgatnggac cntatnntna ccgnggncaa ccttggnaaa tgggtggggag 1020  
acaa 1024

<210> 65  
<211> 1024  
<212> DNA  
<213> Homo Sapien  
  
<220>  
<221> misc\_feature  
<222> (1)...(1024)  
<223> n = A,T,C or G

<400> 65  
gggnnnnnnt aactnnacgc ccgcttggtg ccgagctcgg atccctagta acggccgcca 60  
gtgtgctgga attcgccctt agcgtggctg cggccgaggt actctgctga tctctgcctt 120  
gtaatggaaa tgtttcattc attaatgtta ttgatatggg tgcactatgt ccgtaatttt 180  
gctttttgtg tatctgtcta atgtttttta ttctctttt tctcttttac tattttcttt 240  
taaattaagt aaatagttcc taacgtagta ttttattttc ttaaaataaa tcaaaactcac 300  
ttataaaata tatttcatat tactttctta tcgattgctg tatgccttac aacatacatc 360  
ttatcagact caacatttat agtaacataa atccattgag acatagtaac attaatctt 420  
tatagggtcta tttattctac ttattcaata attgttatat atatatata tctacatggt 480  
acaaacacaa aaatatattg ttataatgct tgtttttatg taattttatg tcttttaaag 540  
aacatgagag aagaaaaggaa agcaaagtaa ctattagcat tgttatgtta acattattct 600  
ttacaatttc tgggtctctt catttttttc ctgttgattc aagttgtatc ttagtgcacat 660  
ttcatttctt taatacaact ttgctccaat tatttctttt gtgctcttaa tgtcaaatat 720  
attaagtttt gnttgcatta taggctcaac actattatac atatatgggt ttatgcattt 780  
attttgaatt aagagaaaat aaaaatatgc aatttaattg cttatatact attcatataa 840  
ttaccctcta tgagggttnc ttatatatgn attccaacn tatttataaa ntccaaanta 900  
cctggtangt gccnaaaggc tcctaagcct attagcccg aaaaaaatc cctgggtant 960  
tccttggnaa gggagggttg attgccacca acctntttta natnggggtg ggttttaata 1020  
aacc 1024

<210> 66  
<211> 1024  
<212> DNA  
<213> Homo Sapien  
  
<220>  
<221> misc\_feature  
<222> (1)...(1024)  
<223> n = A,T,C or G

<400> 66  
ggagnnnnnn ttngtnngg gccctctaga tgcattgctg agcggccgcc agtgtgatgg 60  
atatctgcag aattcgccct ttccgagcgg cggccgggca ggtactccag cctgggtaac 120  
agaggggagac tctatgccaa acaaaacaa aaacaaacaa acaaaacatg gagaccagaa 180  
agcaatgaga tgaaatgttc aaagtgtgta aagaaaaaaa aaggtcaacc aaaagtctta 240  
tatccagaat atttttcaaa gtataaaagc aaaatacatt ctccagataat aaaaacaaaa 300  
caaactaaaa gagtttgttg ctatcatacc taccttacia gaaatactca gtgatttttt 360  
tcaggctaatt aggctaggag catttggcac ctaacagtaa tttgaattta tatatatggt 420  
tgtatacata tatatggaac actcatagag gtaattatat gaatagttat ataagacatt 480  
aaattgcata tttttatttt ctcttaattc aaaataaaatg cataaaacaa tatatgtata 540  
atagtgttga gcctataatg caaacaacaa taatatattt gacattaaga gcacaaaaga 600  
aataattgga gcaaagtgtg attaaagaaa tgaaatgaca ctaagatata acttgaatca 660  
acaggaaaaa aatgaagaga accagaaatt gtaaagaata atgntaacad aacaatgcta 720  
atagttactt tgccttctct tcttctctca tgnctcttaa aagacataaa attacataaa 780  
aaccaagcat tataacaata taattttggg tttggaacat ggtagatgta tatatatata 840  
ccattatttg ataagtagaa taaataggac tattaaggaa ataatggtac tatgggtcaa 900  
tgggantaag gtacctataa nggtgagcct gganaggaag natgttgnaa ggcttccggc 960  
aatcggttta gaaagtantt tggaaatata ttttnatnaa gnggggttga ttaatttagg 1020

aaaa

1024

<210> 67  
<211> 1024  
<212> DNA  
<213> Homo Sapien  
  
<220>  
<221> misc\_feature  
<222> (1)...(1024)  
<223> n = A,T,C or G

<400> 67  
gagnnnnnnnt taactccagc ttggtaccga gctcggatcc ctagtaacgg ccgccagtgt 60  
gctggaattc gccctttcga gcggccgccc gggcaggtag tttttttttt tttttttttt 120  
ttttggaaaa tgagattttt gactttaaca aaacaaatag agattgaatt taccaaatat 180  
tgataattca tgtanaacgg gtgccacaga ttttaaagta tcaaaaccaa gagggcatca 240  
caaaataaac ttggtgaaa aatatcttca tcaaagaaga aaatatgaga agagtagtcc 300  
ttatgcagtg aggagaaata tatttggtaa agtaaatatg ggtagtagat actgaatcta 360  
tagatagcat atattccaaa tgttttttag ggaatatcaa atcagatgat gcttanatgt 420  
tatagtaata tcaacttatct catttggaat gaaatttaat gttttttaat aaatagcaaa 480  
ttttcatttt tcaactacct ttataaaaca aattaaatat ttagagtata actgatcata 540  
actaacatca ccttgcattt actaataaat actcctaata catttggttt attattggaa 600  
tttatactct tataatttta cctgctagaa attagtacc ttgtggcatt atgtttaaag 660  
tttacatttt cccagtgtat tgaacagtat ttatacntaa aatggatata tgnccaatga 720  
atagtaacca tgtttggtgg tttaaaaacc gnacatggtt tagtttgaca ttggcatgtc 780  
tcttcagaaa ttnaaaagggt atcntttaag ggatggcttt tnggaaatca ttaataaaact 840  
accntctggg aaaangaatn ccaatttcaa gaagctacct aantagaact cagaccccn 900  
gggcagggtt ttggnanaaa angctttcaa ttncaaattn nttntccggn gnaaaccgaa 960  
ngggaccctt anngnnttg accncctttc cngnaaactg gttttaaaat aaaaatttcc 1020  
gnnc 1024

<210> 68  
<211> 1024  
<212> DNA  
<213> Homo Sapien  
  
<220>  
<221> misc\_feature  
<222> (1)...(1024)  
<223> n = A,T,C or G

<400> 68  
gnngnnnnnn ntannnttga attgggccct ctagatgcat gctcgagcgg ccgccagtgt 60  
gatggatata tgcagaattc gcccttagcg tggctcgggc cgaggtagct agtagatcta 120  
ctgagattaa acgggacctg tttggagcag aaccttttga cccatttaac tgtggagcag 180  
cagatttccc tccagatatt caatcaaaat tagatgagat acaggagggg ttcaaaatgg 240  
gactaactct tgaaggcaca gtattttgtc tgcacccgtt agacagtagg tgctgacatc 300  
aagaacaaga aatcctgatt catgttaaat gtgtttgtat acacatgtca tttattatta 360  
ttactttaag ataggtatta ttcatgtgtc aatgttttta aatattttaa tattttgaaa 420  
attttctcag ttaaatttcc tcaccttcac tattgatctg taatttttat tttaaaaaca 480  
gcttactgta aagtagatca tacttttatg ttcccttctg ttctactgt agatgaattt 540  
gtaattgaaa gacatattat acaaatacct gccttgtgtc tgagttctat ttagtttagca 600  
tcttgaaatt tgtattcatt ttccagatgg ctagtattat aatgatttcc caaaagccat 660  
accttaaaaga taacttttta aattctgaag agacatgcca atggcaaaact aaacatgggtc 720  
tggttttaaa ccaaccaaca tgttactatt cattgggaca gatatactt tatggataaa 780  
tctggtcaca tactggggaa atggaaactt taacataaat ggccccangg cactaaatttc 840  
ttaccggtaa aaatnttang ggtttaaant nccatattna acccnatggg tttaaaggat 900  
ttattntaaa ngcnngggga ngtanntttg acagntnncn ctaaaanttt aaatgggttn 960  
ttaaaggtn gaaaaaanga aaaattgctt ttttttnaaa acctttaant cntttccnag 1020  
gggn 1024

<210> 69  
 <211> 1024  
 <212> DNA  
 <213> Homo Sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(1024)  
 <223> n = A,T,C or G

<400> 69  
 gggnnnnnnn tnncttanac gccnngettg gtaccgagct cggatecccta gtaacggccg 60  
 ccagtgtgct ggaattcgcc ctttcgagcg gccgcccggg cagggtactcc ggctcggtgct 120  
 agcagcacgt ggcattgaac attgcaatgt ggagcccaaa ccacagaaaa tggggtgaaa 180  
 ttggccaact ttctattaac ttatgttggc aattttgccca ccaacagtaa gctggccctt 240  
 ctaataaaaag aaaattgaaa ggtttctcac taaacggaat taagttagtg agtcaagaga 300  
 ctcccaggcc tcagcgtacc tcggccgcca ccacgctaag ggccaattct gcagatatcc 360  
 atcacactgg cggccgctcg agcatgcac tagagggccc aattcgccct atagttagtc 420  
 gtattacaat tcactggcgg tcgttttaca acgtcgtgac tgggaaaaacc ctggcgttac 480  
 ccaacttaat cgctttgcag cacatcccc tttcgccagc tggcgtaata gcgaagaggc 540  
 cgcaccgag cgcccttccc aacagttagc cagcctgaat ggccaatgga cgcgccctgt 600  
 agcggcgcat taagcgcggc ggggtgtgtg gttacgcgca gcngtgaccg ctacacttgc 660  
 cagcgcccta cgcccgctct ttcgctttct tcccttccct tctcgccacg ttcgcccgtt 720  
 ttccccgtca agctctaaat cgggggctcc ctttttaggt tccgaattan tgctttacgg 780  
 accttgacct caaaaaactt gantanggtg atgggtcacg taatggggcc atnggccttg 840  
 anaagacggt ttttcgccct ttgacngttg gagtccacgt tctttaaaag gggactcttg 900  
 gttccaaact ggaacaacn nttaancctt atttngggct aatcctttgg aattaatnag 960  
 ggattttgac caatttgggc ccttnggtta aaaaaagggg cttgntttta ccaaaaaattt 1020  
 aacc 1024

<210> 70  
 <211> 1024  
 <212> DNA  
 <213> Homo Sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(1024)  
 <223> n = A,T,C or G

<400> 70  
 ggagnnnnnnn ttngtttgg gccctctaga tgcattgctg agcggccgccc agtgtgatgg 60  
 atatctgcag aattcgccct tagcgtgggc gccggccagg tacgctgagg cctggggagtc 120  
 tcttgactcc actacttaat tccgtttagt gagaaacctt tcaattttct tttattagaa 180  
 gggccagctt actgttgggt gcaaaattgc caacataagt taatagaaaag ttggccaatt 240  
 tcacccatt ttctgtggt tgggtccac attggaatgt tcaatgccac gtgctgctga 300  
 caccgaccgg agtacctgcc cggcgccgccc ctcgaaaagg cgaattccag cacactggcg 360  
 gccgttacta gtggatccga gctcgttacc aagcttggcg taatcatggt catagctgtt 420  
 tcctgtgtga aattgttatc cgctcacaat tccacacaac atacgagccg gaagcataaa 480  
 gtgtaaagcc tgggggtgct aatgagttag ctaactcaca ttaattgctg tgcgctcact 540  
 gcccgccttc cagtcgggaa acctgtcgtg ccagctgcat taatgaatcg gccaacgcgc 600  
 ggggagaggc ggtttgcgta ttgggcgctc ttcgcttcc tcgctcactg actcgtgctg 660  
 ctcggtcggt cggctgcggc gacggtatc aagctcactc aaaggcggtg atacngttat 720  
 ccacagaatc aaggggatac gcaggaaaga acatgtgaac caaaaggcca caaaaggcca 780  
 ggaaccgcta aaaaaggccg cgttggttgg cgtttttcc atangcttcc ggcccccttg 840  
 acgagcatta ccaaaaatcg acgctcaagt tcaaagggtg cgaaancccg accggactnt 900  
 taagaatccc agcgttttcc cctggaactt ccttggggcg ttttctggtt ccaaccttgc 960  
 cgttaccgga tacctggncc gcntttttcc ctttngggaa accngggcnt tntcaaaant 1020  
 taac 1024

<210> 71  
 <211> 1024

<212> DNA  
<213> Homo Sapien

<220>  
<221> misc\_feature  
<222> (1)...(1024)  
<223> n = A,T,C or G

<400> 71

gagnnnnnnnt	taactcccg	ttggtaccga	gctcggatcc	ctagtaacgg	ccgccagtgt	60
gctggaattc	gcccttagcg	tggtcgcggc	cgaggtagctt	tttttttttc	tttttttaca	120
tctgatttta	atgcttcgtt	aacttcaaaa	ggaactggta	gagttcagaa	ggtagagctgt	180
tgttttttcta	aaactcttcc	caggaagggg	acattgacac	ttgaattttt	gtcacctttt	240
tcctcattag	aaggtaaagta	gaaagcctta	ctgtaggatt	tttaaaaaaa	aatccatctc	300
accccatatt	ggtcttaaat	aagtatagac	taattaacct	aagctacctt	taacaacgta	360
gaatttagat	gggttcatat	atgtgagaaa	aacctgaata	taggacaggg	gtcctacttt	420
tttccccacc	tctgtcgccc	aggctagagt	atagtgggtg	gatcttggcc	cactgcaacc	480
tctgcttctc	aggttcaagt	gattctcctg	cctcagcctc	ccaagtagct	gggattgtaa	540
gagtatgcc	ccagccccag	ctactttttg	tatttttagt	agagacaggg	tttcatcatg	600
ttggccagga	tggtctctta	actcctgccc	tcaagtgatc	caccagagag	gagatcctcg	660
gcctccccaa	gtgctgggat	tataggcatg	agccaccgtg	cccagcctac	tttctaatta	720
attaataaaa	aaaaaaac	ttcccaaatg	agctgataaa	aaactgacgt	gaggctgctt	780
tgcttcaat	aatacctagt	tttcagctgt	tccaaactcg	ttccaaattg	gaaattanct	840
ggaacnccac	tacagtaatc	ttcanggaan	gggaaaatta	ggccttaaaa	gaatccccag	900
aaagttcanc	atnggnancc	tgncnnggcc	ggnccggtca	aaangggcna	aatttgacga	960
aattccatna	cacttggcgg	gccgttcgan	catggctttt	aangggccca	attgnccctt	1020
aaag						1024

<210> 72  
<211> 1024  
<212> DNA  
<213> Homo Sapien

<220>  
<221> misc\_feature  
<222> (1)...(1024)  
<223> n = A,T,C or G

<400> 72

gnagnnnnnn	ttnnnttcg	aattggggccc	tctagatgca	tgctcgagcg	gccgccagtg	60
tgatggatat	ctgcagaatt	cgccctttcg	agcggccgcc	cgggcaggta	ccatgctgac	120
ttcttggtat	cttttaaggc	ctaattttcc	cttccttgag	attactgtag	tgtgttccag	180
ctaatttcta	tttgaaacg	agttggaaca	gctgaaaact	aggtattatt	gaaggcaaa	240
cagcctcag	tcagttttt	atcagctcat	ttgggaagtt	ttttttttt	ttttaattaa	300
ttagaaagta	ggctgggcac	ggtggctcat	gcctataatc	ccagcacttg	gggaggccga	360
ggatctctc	tctggtggat	cacttgaggg	caggagttaa	gagaccatcc	tggccaacat	420
gatgaaaccc	tgtctctact	aaaaatacaa	aaagtagctg	ggcgtgggtg	catactctta	480
caatcccagc	tacttgggag	gctgaggcag	gagaatcact	tgaacctagg	aagcagaggt	540
tgcatgtggc	caagatcaca	ccactatact	ctagcctggg	cgacagaggt	ggggaaaaaa	600
gtaggacccc	tgctctatat	tcagggtttt	ctcacatata	tgaacccatc	taaattctac	660
gttggttaaag	gtagcttagg	ttaattaaagt	ctatacttat	ttaagaccaa	tatgggggtg	720
naatggattt	ttttttaaaa	atcctacagt	aaggctttct	actttccttc	taatgaggaa	780
aaaggtgacc	aaaantcaag	tggcaatggc	ccctttctgg	ggaaaagttt	anaaaaacca	840
ccggttanct	tntggaactt	ttacceagtt	cccttttgaa	gttaccgaag	cctttaaaan	900
cagatgttaa	aaaaggaaan	nnnaaaaagt	ncctttggcc	gggaacccnc	ttaagggcca	960
aattccacac	acttgggggg	ccgntncnt	anggatccca	ncttgggncc	aaannttggg	1020
gnaa						1024

<210> 73  
<211> 1024  
<212> DNA  
<213> Homo Sapien



<220>  
<221> misc\_feature  
<222> (1)...(1024)  
<223> n = A,T,C or G

<400> 73  
gagnnnnnnnt tnactttacac gccngcttgg taccgagctc ggatccctag taacggccgc 60  
cagtgtgctg gaattcgccc tttagcgtggc cgcggccgag gtactgtgtt atggcacaga 120  
caatgcttgc tttagcgggtgc cttgtttacat aggtggatgc agagtgcgca cacgggatga 180  
tggcaataaa gacctcactc agtcgttggga atgaaggaac taggtaactg cttcaacaag 240  
gacggtctca gctctacett atctctcaac agagtgcgca cactgagtggt gagctcagat 300  
gtcatcttgt tctcttttaa aattcaccaa attcttttgc acatttttct gttatagaga 360  
cacggatatac ttcttcttca tagtcacaa agttgctgggt atctccagag cctctaaact 420  
ttggtatgaa tggagcttca acctctctct ggtaaatagc aatccaatct gtcgtggcaa 480  
accactgtg agtttttata tcaactgacac cattcttttag atttccaaat ctcttgatca 540  
aatccacctg cagcaggttc cgtagaagggt ccttgagatc tgaactgaag tgggatggga 600  
atcggacctt tccagaaaca atcttttcat aaatctgaat tggttggtct gcaaagaatg 660  
ggggatagcc agctgccatt tcatagatta gcactcctaa tgcccaccaa tccactgcct 720  
tattgnagcc cttgctgaga attattttctg gagccaaata cctctggagt tccacataat 780  
ggccaagttc tgcctttaac tcttttggca aacccccaaa gtctgtgacc cgggatatag 840  
ccctgatggg ccaattttaag aagaattttc anggggttaa aaactctggt aaatgaaggc 900  
taanggaaat ggaggnacct tttttttttt nnnnnnnntt ttttttttaa acnttgtaaa 960  
agcccaaaat tttggctana anttantttc aaagnttnaa accntttcca aatttttttt 1020  
taat 1024

<210> 74  
<211> 1024  
<212> DNA  
<213> Homo Sapien

<220>  
<221> misc\_feature  
<222> (1)...(1024)  
<223> n = A,T,C or G

<400> 74  
ggagnnnnnn nttgagttcc ggccctctag atgcattgctc gagcggccgc cagtgtgatg 60  
gatattctgca gaattcgccc tttagcgtggc cgcggccgag aggtacagtc aactgcattt 120  
ttctctggtg accaagcttc cactgacaag gaagaggatt atattcgtta tgcccatggt 180  
ctgatattct actacatccc taaagaatta agtgatgact tatctaaata cttaaagcct 240  
ccagaacctt cagcctcatt gccaaatcct ccatcaaaga aaataaagtt atcagatgag 300  
cctgtagaag caaaagaaga ttacactaag ttttaacta aagatttgaa gactgaaaag 360  
aaaaatagca aaatgactgc agctcagaag gctttggcta aagttgacaa gagtgggatg 420  
aaaagtattg ataccttttt tggggtaaaa aataaaaaaa aaattggaaa ggtttgaaac 480  
tttggaaaata aaatctagca aaaatatttg ctttttacct gttttaaaaa aaaaaaaaaa 540  
aaaaaaaaaa aagtacctcc attcactaga cctcatctac agagatctaa aacctgaaaa 600  
tctcttaatt gaccatcaag gctatatcca ggtcacagac tttgggtttg ccaaaaagatg 660  
taaaggcaga acttggacat tatgtggaac tccagagtat ttggctccag aaataattct 720  
cagcaagggc tacaataagg cagtgggatt ggtgggcatt aggagtgcta atctatgaaa 780  
tggcactggc tatccccatt cnttgcagac ccacccattc agaatttatt gaaaaagatg 840  
gttcttggaa ngncggaatt cccattcccc ttcagntcna actcaagggc ccttttacgg 900  
aancctggtt gcanggggga ttgatccagg anaatttggg aatcttaaag aaaaggggnc 960  
cggggtttta aaaacctcnc aagnggggtt gcccccancg naatgggatt ggtttttccc 1020  
ccna 1024

<210> 75  
<211> 1024  
<212> DNA  
<213> Homo Sapien

<220>

<221> misc\_feature  
 <222> (1)...(1024)  
 <223> n = A,T,C or G

<400> 75  
 gagnnnnnnt taactccgc ttggtaccga gctcggatcc ctagtaacgg ccgccagtgt 60  
 gctggaattc gcccttagcg tggctcgggc cgagggtacta tatgtatttt attaaaaatg 120  
 tggaagatta atctgtttct ctctgaatgt agattttcac caaaacatct cttaaaacag 180  
 cagggaactca acacttaaaa atgaactaga agagctgggc acagtggctc acgcctgtaa 240  
 tcccagcact ttgggaggcc gaggcgggca aatcacttga ggtagaggat tcgagaccag 300  
 cctggccaac atgggtgaaac cctgtctcta ctaaaaacac aaaaattaac tgggcatggc 360  
 ggcacacgcc tttaatccca gctactcaag aggctgaggc aggagaatcg ctttgaacct 420  
 gggaggcaga ggttgtagtg tgctgagatc ataccactgc attccagcct gggcgacaga 480  
 gcaagactcc acctcaaaaa aaaaaagaag aaaagaaaat agtagtctca gccaggcgtg 540  
 atggctcaca cctgtaatcc cagcactttg ggaggccaag gtgggcagat cacctgaggt 600  
 caggagtctg agaccagcct ggctacgtg gcaaaacctc atctctaata aaaatacaaa 660  
 aattagcttg ggcgtggtgg catgcacctg tcatccagc tatttgggag gctgagacag 720  
 gagaagtgcg tttgaacctg ggagcagaa aattgcggtg aagctaagat cgacagactt 780  
 cacttccacc tgggcaaaa anggaactct atctcaaaaa aaaaaaangg aaaaagttagt 840  
 ctntaagaca ctgggcaaac ctgaaagga attgagcagt cctcactttn ctgnagtcan 900  
 tttgntnaat gccacatggc tcttttgnaa gaaatttgag agcttttttc taatcccaat 960  
 tttntaatt tgggaattcc tttttccgga ttttttctt gccngnggt gttcccaang 1020  
 gcct 1024

<210> 76  
 <211> 1024  
 <212> DNA  
 <213> Homo Sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(1024)  
 <223> n = A,T,C or G

<400> 76  
 gnnngnnnnn ttnnnntgng antngggccc tctagatgea tgctcgagcg gccgccagt 60  
 tgatggatat ctgcagaatt cgccctttcg agcggccgcc cgggcaggta ctctttgtgg 120  
 ctggtctctt tttctgcaca caatgcctat gagaccataa ctaaagtcaa attccatgg 180  
 cactaaccaa taatggcatc tcaaagaaat tccaacctag agaaattctg atgatgtgg 240  
 tagaacacca atcaggacac tcacttcatt gttgataatt ccgacatgc actgattcag 300  
 acccagctta ttgaattcat tgagtccaca ggccagcact ttgcctgact gggcaacag 360  
 aaatgtccca tcacagccac attgaactgc aacaataatc aaggccttgg gaacatccac 420  
 ctgcaagaaa aaaatcagaa aaagaaatcc caaatatata attcgtatta gaaaaaagc 480  
 tctcaaattc tttcaaaaaga gacatgctgc atttagcaga atgactacag gaaagtgagg 540  
 actgctctat tcttttcagg tttgcccagt gtcttagaga ctactttttc ttttttttt 600  
 tttgagatag agtttccctc ttttgeccag gctggagtga agtccgtgag atcttagctc 660  
 accgcaatct ctgcctccca ggttcaagcg acttctcctg tctcagcctc ccaaatagct 720  
 gggatgacag gtgcattgcca ccacgcccag ctaatttttg gatttttatt agagnatgag 780  
 gttttgccac gtaggccaaag ctggncctga acttctgacc ctcaagtgc tggccaccct 840  
 tgggccttcc aaagtgtctg gaattacagg gngagccatt acgcctggnn tgaaactcca 900  
 atttcttttc tctntttttt ttttgngggg gagcttgctn tgcncccaag ctgggaaagc 960  
 cangggatga cttnnnnac tggaaccttg gcttcaggtt taaagggatt tctggttaa 1020  
 nccc 1024

<210> 77  
 <211> 1024  
 <212> DNA  
 <213> Homo Sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(1024)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 77

gagnnnnnnnt	aacttacacg	cccgccttgg	accgagctcg	gatccactag	taacggccgc	60
cagtgtgctg	gaattcgccc	ttagcgtgg	cgccggccgag	gtactttttt	ttttttttt	120
ttttttttac	agaaggctgt	aaagctttat	tgggagaatt	ttaatgaaca	aatttccaac	180
ataggagcag	cctgcatcat	ttcaacgtgc	cttcttttaa	cactgtgatt	gcttttcacc	240
ttcttcaggc	gttttcacct	cctctggatt	tggcgggtcc	atctcctgcc	catcaggacc	300
atcttcacac	tcacacccag	tctgtgggtg	accctgttcc	tggctatgag	cttcaggctt	360
cgccccctga	cctgcanatg	ctccctcacc	ctctccctcc	tgagcagctg	caggatccctg	420
acgttgagtt	gctgggtccc	cttcttcagg	tgttgctgg	tccgcttcat	cactgaactg	480
ctcgggcccgc	ataggcccaa	tcatttcagg	aggctgnacc	tgcccgggcg	gccgntcgaa	540
agggcgcaatt	ctgcagatat	ccatcacact	ggcggccgnt	cgagcatgca	tctagagggc	600
ccaattcgcc	ctatagttag	tcgtattaca	attcactggc	cgtcgtttta	caacgtcctg	660
actgggaaaa	ccctggcggt	acccaaactta	atcgcttgc	agcacatccc	cctttcgcca	720
gctggcgtaa	taacgaaaag	ccccgcaccg	atcgcccttt	ccaacagttg	cgancctga	780
aagggcnaaaa	tggacncccc	tggaaacggc	attaaccccc	gcnggnnnnn	gggtaccccn	840
caangngacc	ggtacacttg	gcaangccct	aacgccegg	ccntttgntt	ttctttcctt	900
tcnttttngc	acgttinncc	gggttttccc	ggnaagctnt	naaatngggg	ggtecccntt	960
tnnggtccna	ataaggcntt	tagggncctt	ggccccnaa	aaatttgntt	ttnnggggan	1020
ggtc						1024

&lt;210&gt; 78

&lt;211&gt; 1024

&lt;212&gt; DNA

&lt;213&gt; Homo Sapien

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(1024)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 78

gnagnnnnnn	ttgagtttgg	gccctctaga	tgcattgctg	agcggccgcg	agtgtgatgg	60
atatctgcag	aattcgccct	ttcgagcggc	cgcccgggca	ggtacagcct	cctgaaatga	120
ttgggcctat	gcggcccgag	cagttcagtg	atgaagcggg	accagcaaca	cctgaagaag	180
gggaaccagc	aactcaacgt	caggatcctg	cagctgctca	ggagggagag	gatgagggag	240
catctgcagg	tcaagggccg	aagcctgaag	ctcatagcca	ggaacagggt	caccacacaga	300
ctgggtgtga	gtgtgaagat	ggtcctgatg	ggcaggagat	ggacccgcca	aatccagagg	360
aggtgaaaaa	gcctgaagaa	ggtgaaaagc	aatcacagtg	ttaaaagaag	gcacgttgaa	420
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acagccttot	gtaaaaaaa	aaaaaaaaa	aaaaaagtac	ctcggccgcg	accacgctaa	540
gggcgaattc	cagcacactg	gcggccgtta	ctagtggatc	cgagctcggt	accaagcttg	600
gcgtaatcat	ggtcatagct	gtttcctgtg	tgaatttgtt	atccgctcac	aattccacac	660
aacatacgag	cccggaagca	taaagtgtaa	agcctgggg	gcctaagtga	tgagctaact	720
cacattaatt	gcgttgccgc	tcactgccc	ctttncagtc	gggaaacctg	tcgtgccagc	780
tgcattaatg	aatcggncaa	cgccccgggg	aaaaagcgg	ttgcgtattg	ggcgtctctc	840
gctttcttgg	ttacttgact	cnttngcct	tggccgttcg	gttgcggnna	acggtttcag	900
cttacttcaa	angcgggaaa	tccggttttc	cncggaaatc	aggggaatac	ccnnggaaaa	960
gaacttgtga	accnaaaggc	cnccaaaag	gcccngnaac	cgtaaaaaan	ggccccntnn	1020
nntn						1024

&lt;210&gt; 79

&lt;211&gt; 1024

&lt;212&gt; DNA

&lt;213&gt; Homo Sapien

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(1024)

&lt;223&gt; n = A,T,C or G

<400> 79  
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 gctgggaattc gccctttcga gcggccgccc gggcaggtag tgtttttgtc atttgacca 120  
 gcttctttct ccaggaaaga tcaaaacgat gcactgcaag gttaacatcc aatttttaat 180  
 acattgtgat tgggtccagat agctgcctta tccaaactgcc tcctttggac cacttcatca 240  
 tgggacagct tgatgcaatc tacttgacaa gacctggaa cccacacccc ctcatggaac 300  
 cagtgtccac ctcccagtc cagtgtgacc ccagggaact ctgacctgct tgctttaaac 360  
 ccaccactta aaagtctcca cagaaaaact gtttgaatag tacctcggcc gcgaccacgc 420  
 taagggcgaa ttctgcagat atccatcaca ctggcgcccg ctcgagcatg catctagagg 480  
 gcccaattcg ccctatagt agtcgtatta caattcactg gccgtcgttt tacaacgtcg 540  
 tgactgggaa aaccctggcg ttaccaact taatgcctt gcagcacatc cccctttcgc 600  
 cagctggcgt aataagcgaa gaggcccgca ccgatcgccc ttcccaacag ttgcgcagcc 660  
 tgaatggcg aaatggacgc gccctgtagc ggcgcattaa gcgcggcggt gtggtggtgg 720  
 ttacgcgcga gcgtgacgc tacacttgcc agcgccctta cgcgcgtcc ttctgctttc 780  
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 cctttagggt tccgaattan tgctttacgg gaccttganc ccaaaaaact tggnttaggg 900  
 gtgagggta cgtatgggcc attggcctg aaanacggg ttttcgcccc tttagacctt 960  
 ggaatcncgt nnttttaaaa ggggactttg gtcccaactg ggacaacnnt taaccctta 1020  
 ttng 1024

<210> 80

<211> 1024

<212> DNA

<213> Homo Sapien

<220>

<221> misc\_feature

<222> (1)...(1024)

<223> n = A,T,C or G

<400> 80  
 gnagnnnnnn tttnnttgng aattgggccc tctagatgca tgctcgagcg gccgccagt 60  
 tgatggatat ctgcagaatt cgccttagc gtggtcgcg ccgaggtact attcaaacag 120  
 gttttctgtg gagactttta agtgggtgggt ttaaagcaag caggcaagag ttccctgggg 180  
 tcacactgtg actgggaggt ggacactggt tccatgaggg gtgtgggggt ccagggtctt 240  
 gtcaagtaga ttgcatcaag ctgtcccatg atgaagtgg ccaaaggagg cagtggata 300  
 aggcagctat ctggaccaat cacaatgtat taaaaattgg atgttaacct tgcagtgcac 360  
 cgttttgatc ttctctggag aaagaagctg gtgcaaatga caaaaacagt acctgcccg 420  
 gcggcgctc gaaagggcga attccagcac actggcgcc gttactagt gatccgagct 480  
 cggtaccaag ctbgcgta tcatggctcat agctgttcc tgtgtgaaat tgttatccgc 540  
 tcacaattcc acacaacata cgagccggaa gcataaagt taaagcctgg ggtgcctaat 600  
 gagtgagcta actcacatta attgcgttgc gctcactgcc cgtttccag tcgggaaacc 660  
 tgctgtgcca gctgcattaa tgaatcgccc aacgcgcgg gaaaagcgg ttgcgtattg 720  
 ggccgctctt nocttntn gcttacttga ctgcttgcg cttegnccgt tcgcttgccg 780  
 gcnaagcggg attcagctta cttcaaaggg ggtaataacn ggtattcccc agaaatcagg 840  
 gggathaccc cnggaaaaga acatgtgaan ccaaaaggcc accaaaaagg ncnnggaacc 900  
 gtnaaaaang gccnctttnn nctgngttt ttccattaa gtcccgccc ccttgacagc 960  
 ctttccaaaa attcganncc ttcaaantnc aaagggggcn aaaacccnc cggggctttt 1020  
 taag 1024

<210> 81

<211> 1024

<212> DNA

<213> Homo Sapien

<220>

<221> misc\_feature

<222> (1)...(1024)

<223> n = A,T,C or G

<400> 81  
 gngnnnnnnnt taacttacac gccagcttgg taccgagctc ggatccctag taacggccgc 60

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cagtggtgctg gaattcgccc ttctgagcgg ccgcccgggc aggtacctca ttagtaattg 120
ttttgttggt tcatTTTTTT ctatgtctc cctctacca gctcacctga gataacagaa 180
tgaaaatgga aggacagcca gatttctcct ttgtctctg ctctattctc ctgaagtcta 240
ggttacccat ttgggggacc cattataggc aataaacaca gttcccaaag catttggaca 300
gtttcttggt gtgttttaga atggttttcc tttttcttag ccttttctg caaaaggctc 360
actcagtcce ttgcttgctc agtggactgg gctccccagg gcctaggctg ccttcttttc 420
catgtcccac ccattgagccc tccactggac agctcagtaa gcctggccct tcattctgcg 480
ctgtgttctt cctctgtgaa aatccaatac ctcttacctc ctctgcatgc aaagattctc 540
aaggattgtc agacttcaaa cgtaacagca gaaccaccag aaggctctat aaatgcagta 600
gtgaccttct caagctgtca ggtcttttaa taggatttgg gatttaatgc tatgtatttt 660
taaaaggaaag aaataagaag ttgctagttt taaaaatgca tgtcttttaa ccaattcaga 720
atctgcccc aaactttttt naaaagtcaa gacagataaa gctttggggg agacngaaaa 780
aaaaannnn nnnaaagagt accttnggcc gggaacacgc taangggcaa attctggcan 840
aaatncatta cactggcgcg gcggtttgag cattgcntnt anangggccc aattngncc 900
ataanggggg cgattacaat tncctgggcc gcgttttaaa acgttnngaac tgggaaaaanc 960
ctgggggtnc cacnttaatg gccttgngga naatccccct tttccccnan tggngnannn 1020
nncn 1024

```

&lt;210&gt; 82

&lt;211&gt; 1024

&lt;212&gt; DNA

&lt;213&gt; Homo Sapien

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(1024)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 82

```

gnagnnnnnn ttnggtttgg gccctctaga tgcattgctg agcgcccgcc agtgtgatgg 60
atatctgcag aattcgccct tagcgtgggc gcggccgagg tactcttttt tttttttttt 120
tttccgtct ccccaaagct ttatctgtct tgacttttta aaaaagtgtg ggggcagatt 180
ctgaattggc taaaagacat gcatttttaa aactagcaac tcttatttct ttcctttaa 240
aatcacatagc attaaatccc aaatcctatt taaagacctg acagcttgag aaggtcacta 300
ctgcatttat aggaccttct ggtgggttctg ctgttacgtt tgaagtctga caatccttga 360
gaatctttgc atgcagagga ggtaagaggt attggatttt cacagaggaa gaacacagcg 420
cagaatgaag ggccaggctt actgagctgt ccagtggagg gctcatgggt gggacatgga 480
aaagaaggca gcctaggccc tggggagccc agtccactga gcaagcaagg gactgagtga 540
gccttttgca ggaaaaggct aagaaaaagg aaaaccattc taaaacacaa caagaaactg 600
tccaaatgct ttgggaactg tgtttattgc ctataatggg tccccaaaat gggtaaccta 660
gacttcagag agaatgagca gagagcaaa gagaaatctg gctgtccttc catttctatt 720
ctggatatctc aggtgaactg gtaaaaggga gacatttgaa aaaaatgaaa cnacaaaaac 780
cattactaat gaggtacctg ccnnggcng ccgttcnaaa gggccaattc cacacactgg 840
gcggcggtta cttaatggat ccnaactcgg taccaanent tgcgtaaatc atggggcenn 900
actgggttnc ctgggggnaa atgggtatnc gttaccaatt cccccaannn ttcganccc 960
gaanccctta agggtaaanc cctgggggcc ctnaagaggg gctaacttcc catttaaatg 1020
ggtt 1024

```

&lt;210&gt; 83

&lt;211&gt; 1024

&lt;212&gt; DNA

&lt;213&gt; Homo Sapien

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(1024)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 83

```

gggnnnnnnt taanttanac gccnnncttg gtaccgagct cggatcccta gtaacggccg 60
ccagtggtct ggaattcgcc ctttcgagcg gccgcccggg caggtagact taaaattgg 120
gccgagcagg gatataacct gcagttaagt gaaaagaaaa tccagcctcc cctccaaaa 180

```

```
aaaaaaaaa atttaatttt taaaaattag tggatggca ataagacact tcagaggcta 240
tcttaacctc tgaataccca tcttctagtt taaagacaga gacatcccat ctggaaaatg 300
ttaacttggt ttgtcatctc gttgccggag taagtagaca taagacagag ttaagaagt 360
aaaaatatag aaaaattttg atggtcacaa tgagataaat attagaatat tactattcca 420
atgattaaat gaggatcttg aaataaatc tgaagtcttc caatttttac atttattgga 480
ggggccctg agttctgtca acttttttat ttaagtctct tgctcttatt ttgtgcataa 540
atgttaaacc ttccaaaaat gaaatgttag ctttctttct tttacttttt attaaattta 600
atagaaaata tgacctgagt agttaaaaag tatttgcag tatttgcagt aagatgtctc 660
tagcactgct caaaggggcaa attttaaaac ttcagtctgg gtgaaagatt ttgctagtgt 720
tacagaaaga ttgtctatct taaactcaaa gctgggtttt ctttctcaa tgaagtgcac 780
tgggatgctg gcttaagaat tctttccaag gncatgtttg tgaataaaac cttacatgag 840
agctttcctg ncatctacnc ctatatgtgg cctngagggt gaccaaattt antttagntt 900
ctaaagtgtaa nctatcccaa atgggctatc caaatttgaa tggngccctt catactgnga 960
aggaaaaang tggncctngg ccgggaacac ccttangggc caattttgcg anttccntac 1020
aatt 1024
```

```
<210> 84
<211> 1024
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1)...(1024)
<223> n = A,T,C or G
```

```
<400> 84
gnagnnnnnn ttgagntngg ccctctagat gcatgctcga gggccggcca gtgtgatgga 60
tatctgcaga attcgcctt agcgtggctg cggccgaggt acagcattat catctcagta 120
tgtagtggca cacattcaaa atcgataga ccataatgagg atagattaca acttagaaac 180
taaaataaat ttgttcaaca ctccagacaa catatagtgt agatgacagg aaagctctca 240
tgtaatgttt atttcacaaa catgaccttg gaagaattca taagacagca tcccagtcac 300
ttacatgaga aaagaaaaac cagcttgagt ttaagatagc aaatctttct gtaaaactag 360
caaatctttc acccagactg aagttttaaa atttgccctt tgagcagtcg tagagacatc 420
ttactgcaaa taatgcaaaa tactttttaa ctactcaggt catattttct attaaattta 480
ataaaaagta aaagaaagaa agctaacatt tcatttttgg aaggtttaac atttatgcac 540
aaaataagag caagagactt aaataaaaaa gttgacagaa ctcagggacc cctccaataa 600
atgtaaaaat tggaaagact cagaatttat ttcaagatcc tcatttaatc attggaatag 660
taatatctta atatttatct cattgtgacc atcaaaaatt ttctatattt ttacttctta 720
aactctgnct tatgnctact tactccggca acgagatgac caccacaagt taacattttc 780
cagaanggat gtctctgnct ttaaaactaga aagatgggta tttcagaggg taagaatacc 840
ctctgaagtg tctttaatgg catacccta atttttaaaa antaaaattt tttttttttt 900
tgggaggggg aaggtctggat ttcccttcnc ttaacctnga gggtatatcc cctgnttggg 960
acccaatttt aagngnacct ggcccgggcn ggccgttcaa aagggcgaat ttccgcncct 1020
gggc 1024
```

```
<210> 85
<211> 1024
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1)...(1024)
<223> n = A,T,C or G
```

```
<400> 85
gngnnnnnnt taacnccagc ttggtaccga gctcggatcc ctagtaacgg ccgccagtgt 60
gctggaaattc gccctttcga gggccggccc gggcaggtac gcggggagag agaagcgagg 120
ttctcgtttc gagggacagg cttgagatcg gctgaagaga gcgggcccag gctctgtgag 180
gaggcaagac acagtgggtc gcaggatctg acaagagtcc aggttctcag gggacagggg 240
gagcaagagg tcaagagctg tgggacacca cagagcagca ctgaaggaga agacctgcct 300
```

```

gtgggtcccc atcgcccaag tctgcccac actcccacct gctaccctga tcagagtcac 360
catgcctcga gctccaaagc gtcagcgctg catgcctgaa gaagatcttc aatcccaaag 420
tgagacacag ggcctcgagg gtgcacaggc tcccctggct gtggaggagg atgcttcac 480
atccacttcc accagctcct cttttccatc ctcttttccc tctctctctt tctctcctcc 540
tcctctgct atcctctaata accaagcacc ccagaggagg tttctgctga tgatgagaca 600
ccaaatcctc ccagagtgct tcagatagcc tgctcctccc ctcggtcgtt gcttcccttc 660
cattagatca atctgatgag ggctccagca gccaaaagga agagaagtc cagcacccca 720
caggctcctgc cagacagtga gtctttaccc agaagtgaga tgatgaaaag gngactggat 780
tnggtgcagt ttctgntntt taagtntcaa atgaanggaa ccgacncaa anggccgaaa 840
tncttggaag agtgnctna aaaaattatg aagaacnntt tcccttgng gttaangaaa 900
cccctccaan gcnngcnngn nggnctttgg gcnttgangn nnaanggnaa gggatcccn 960
ttggggcenn tcntttggcc ttggnnncct ncctngggcc ctancttng aaggggaanc 1020
cnnn 1024

```

```

<210> 86
<211> 1024
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1)...(1024)
<223> n = A,T,C or G

```

```

<400> 86
gnagnnnnnn ttngtttten gaattgggcc ctctagatgc atgctcgagc ggccgccagt 60
gtgatggata tctgcagaat tcgcccttag cgtggctcgc gccgaggtag tccaggtagt 120
tttctgcac ccaatcttgg gtgagcagct tctgggctc cccataaatg aggtgctcca 180
tcccatcata cagccccatc atattcagtg ctcccagat gacctcctca ggggtgcagt 240
agccctctat gaagattatg cttaggataa gtatgagaat gccagtcttg ggcagctct 300
ggacatcact cagcatccca tcataggtga ggcccaggga ggtgacaagg acaaaggagt 360
ggccagtgagg atccacttcc tttacatcaa tgccaaagac cagcagcatg cactcggagg 420
cttactataa caacaaaggg aagtgtctt cataattttt tatgacactc tccagtattt 480
ctgcctttgt gatcggtccc ttcatttgat acttgaagag cagaaactgc accaaatcag 540
tcaccttttc atctatctca cttctgggta aagactcact gtctggcagg acctgtagg 600
tgcttggaat ctctcctttt tggctgctgg agccctcatc agattgatct aatggaagg 660
aagcaacgac cgagggggag gagcaggcta tctgagcact ctgggggagg aattggtgtc 720
tcatcatcag cagaaacctt ctctggggtg cttggtatta gangatacag gaggaggagg 780
angaagaaga ngaagaagga aaagaggatg gaaaagaagg actgggtgga aatggatgat 840
gaagcatnct tcttcacagc ccagggaac ctgtgcaccc ttnaagggcc tggggcttac 900
ttttgggaat tgaagaactt nttaggcnt gccannngnt tacccttttg ganccttnag 960
ggcctnaagn acctttganc anggnnnn nnnnnnngga attgggcneg gaaatttggg 1020
ccna 1024

```

```

<210> 87
<211> 1024
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1)...(1024)
<223> n = A,T,C or G

```

```

<400> 87
gggnnnnnnt taactcatac gccagcttgg taccgagctc ggatccctag taacggccgc 60
cagtgtgctg gaattcgccc ttagcgtggg cgcggccgag gtacattgag accagcaata 120
gttccagcat ctttggtagc ctgacgctga gagtcatata agtaagctgg cactgtgacc 180
acagcattgg taacagtctt cccaaggtag gcttctgcaa tttccttcat ctttgtcaga 240
accatagaag acacctcctc tggatagaag cttttggtct ctcccttgta ttctacttgg 300
accttgggac tgccagcatc attcaccacc ataaagggcc aatgtttcat atcagactgg 360
acaacagcat catcaaatct gcgtccaatc agacgtttgg catcaaaaac tgtgtcgggtg 420

```

gggttcattg	caacttgatt	ctttgcgga	tcaccgatca	accgttcagt	gtccgtaaaag	480
gcgacatagc	ttggagtggg	tcgggtttccc	tgatcattgg	caattatctc	gactttttccg	540
tgctggaaaa	cacccacaca	agagtaggtg	gtgccaaagat	caataccaac	tgacaggtccc	600
ttggacatgg	ttgctgggat	gtaggcctgg	ctccaataac	gaagggaagcc	acaaaaacccc	660
aagagctgca	ggcgaagtcc	aatgagaccc	cccgcggacc	tgccccgggcg	gccgctcgaa	720
agggcgaaat	ctgcagatat	ccatcacact	ggcgccgnt	cgagcatgca	tctaganggc	780
ccaattcgcc	ctataagnga	gtcgnattac	aatcacttgg	ccgcgtttta	caacgtcgtg	840
acttgggaaa	accctggggg	acccaactta	atcgnttgn	agcacaatcc	ccntttnncc	900
anctggcgga	antnaccnaa	aaggcccgna	ccgaacggcc	ntttccaaaa	gttgcncaan	960
cctgaaangg	caaaaggacc	cccccttta	acggggccat	taaaccccn	ncngggnnnn	1020
nngg						1024

<210> 88  
 <211> 1024  
 <212> DNA  
 <213> Homo Sapien  
  
 <220>  
 <221> misc\_feature  
 <222> (1)...(1024)  
 <223> n = A,T,C or G

<400> 88						
gnnnnnnttn	ngattgggccc	ctctagatgc	atgctcgagc	ggccgcccagt	gtgatggata	60
tctgcagaat	tcgccccttcg	agcggccgccc	cgggcagggtc	cgccggggggt	ctcattggac	120
tcgctgcag	ctcttgggtt	tttgtggctt	ccttcggtat	tggagccagg	cctacatccc	180
agcaaccatg	tccaagggac	ctgcagttgg	tattgatctt	ggcaccacct	actcttgtgt	240
gggtgttttc	cagcacggaa	aagtcgagat	aattgccaat	gatcaggga	accgaaccac	300
tccaagctat	gtcgcccttta	cggacactga	acggttgatc	ggtgatgccg	caaagaatca	360
agttgcaatg	aacccccaccg	acacagtttt	tgatgccaaa	cgtctgattg	gacgcagatt	420
tgatgatgct	gttgtccagt	ctgatatgaa	acattggccc	tttatgggtg	tgaatgatgc	480
tggcaggccc	aaggtccaag	tagaatacaa	gggagagacc	aaaagcttct	atccagagga	540
ggtgtcttct	atggttctga	caaagatgaa	ggaaattgca	gaagcctacc	ttgggaagac	600
tgttaccaat	gctgtggtca	cagtgccagc	ttactttaat	gactcttcag	cgtcaggcta	660
ccaaagatgc	tggaactatt	gctggtctca	atgtacctcg	gcccnggacc	acgctaaggg	720
cgaattncag	cacactggcc	ggccgntact	taatggatcc	gaactcggta	ccaagccttg	780
cgtaatcatg	gnccatactg	gttnctgnng	tgnaattggt	attccgggtca	caattncnca	840
caacattcca	anccgggaagc	cttnagtgtg	aagccctggg	tgcccttaag	agtgaagctta	900
ctnncantta	aatgcgttgc	gcttnnttgg	ccgttttcca	tcgggnnaaan	ctgcngccaa	960
ctggatttaa	ggaattggnc	aanncccccg	ggaaaaaagn	gtttggtatg	gcgcttttnc	1020
gttt						1024

<210> 89  
 <211> 1024  
 <212> DNA  
 <213> Homo Sapien  
  
 <220>  
 <221> misc\_feature  
 <222> (1)...(1024)  
 <223> n = A,T,C or G

<400> 89						
gggnnnnnnt	taaactccag	cttgggtaccg	agctcggatc	cctagtaacg	gccgccagtg	60
tgctggaatt	cgcccttgag	cggccgcccc	ggcagggtaca	gttcagtaat	gttaagtgtg	120
ttcacagtgc	tgtgcaaaaac	atttctatct	tgcaaaaaccg	aagttctata	tccactaaac	180
aactccgcat	tttccctctc	cccagccct	gccaactgcc	attctacttt	ctgtttctct	240
atatttgact	acactagaca	cctcatataca	gttaaatcag	agagtatttg	tttttttgtg	300
actggtttct	ttaaacttag	cataacatcc	tcaagatcca	tcaatagtct	atcatgtatc	360
atgtattact	ctttttttaa	ggttgaacaa	tattccactg	tgtgtgtgtg	tgtgcacgtg	420
tataccacgt	tttgttttagc	cattcgteca	tcaatggaac	ttgggttgct	tcgacccttt	480
ggctactgta	ttacgttgtt	ctagcattgc	tataaagacc	tgagggttggg	taatttataa	540



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agaaaagaag ttctgcaggg tatacaagca tgggtgctggc atctgcctgg cttctgggga 600
ggcctcaggg acccttttact catggtggaa ggtgagggcag gagcaggcat gccacatggt 660
gaaagcagga gcaagaaaga gtggggaggg tgccatcact taaaaaacca gatcccatga 720
gtattcatta ttgcaagaac agcatcaaac catgaggctt cancccgagg cccaaacacc 780
ttccaacang ccccaactcg cattaaggat accctttnaa nntaagggtt gggggggacc 840
aaatntccca actatatcan tgnntttgaa cagggnctcc agttctttta aatcccgaaa 900
aaatntttta aggantccca acccttttaa ngaactaaag gtttcccgna nnnngaaaag 960
tttttncccc ngggggnaaa attnaatgnn tttncccnaa aaantaantt ttnaaagaaa 1020
nttt 1024

```

```

<210> 90
<211> 1024
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1)...(1024)
<223> n = A,T,C or G

```

```

<400> 90
gnagnnnnnn ttngttncg aattgggccc tctagatgca tgctcgagcg gccgccagtg 60
tgatggatat ctgcagaatt cgcccttagc gtgggtcgcg ccgcggtaca tctcctaaag 120
actaatggtc atttacaagt tcaaacatga gataaagtat ttggtgatat gtccatcaag 180
tataactcag aaatcagtaa acaagtcttt tcccaaagta agttccttct aaatgtagct 240
aaaaagagcc actttgtcat taaagtgaat gagtatgcat ttttagaaca gacttgatgt 300
ttggattgtg ttaaacatat gtctgttagt gaaagtgtta gtcacaaaga taaaatttca 360
tctaaaaata atatataagag aaaaatgcaa taaatataca catggtaaaa tacttctctt 420
ttctgtaaac ttttagttct ttataagggt tgtgatatca tttaaaaatt tttctgtatt 480
gaaagaaact ggagacactg ttcatagcag ctgatatagt ttggatattt gtccccacc 540
aaaccttata ttgaaatgta atccttaatg cggaggtggg gcctgggtgg aggtgtttgg 600
gccacggggg tggagcctca tggtttgatg ctgttcttgc aataatgaat actcatggga 660
tctgtgtttt aaagtggatg gcacccttcc ccactctctc ttgctcctgc tttcaccatg 720
tggcatgcct gctcctgcct caccctcacc atgagtnaaa ggnccctgang cctcccagaa 780
gccangcaga tgccancanc attgcttgga tagcctgcan aacttctttt ctttataaaa 840
taccccaacc tnaggcntta tgccatgctt gaacaaccgt aatncntanc ccaanggtcn 900
aaccaaccca ggtccattgg nngggcnaag gnttaacnaa acgnggnntc cntgcnena 960
nnnncccccn ggggnaaatg gcaacccttn aaaaanaagnn tncctgganc cngnnnnncc 1020
nttt 1024

```

```

<210> 91
<211> 1024
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1)...(1024)
<223> n = A,T,C or G

```

```

<400> 91
gggnnnnnnt aattanccgc ngcttggtac cgagctcgga tccctagtaa cgcccgccag 60
tgtgctggaa ttgcgcccta gcgtgggtgc ggccgaggta ccttggaagt tatgtcatta 120
atataggctg gttcatcaaa taaagcaaaa ccttgcaata tcagctagat ttacactccg 180
ggacgttgcc caaaggtagg aagaaaagcag agggaaatat ttcagtcacg atttccaaag 240
tcattatcaa aatctgtgag gaagtttaat ctccaaaga gtcaatgtca gacatcaggc 300
ctctgttgcc tgcctctctc gaggcactag attaggagtc ttcaataaga gacttaacat 360
gaggtatatg gaagatgagg caccgagata agttcatcat taggtgtgag cactgctcac 420
ccttgctggc aagtctctct taagggcctg aagcacaggt gtccaaaaga aagcggttaag 480
tccatcttaa tagaatctat gtgggtatag atgtggtcag cccctggtct gtgatcagca 540
agaacctaca gcacagatta tgccctgccc acttcaatga atacctactc tcctccattc 600
tccatcactt tttttgctat caagaactcc ggaccttgcc catgggagaa gtttagagag 660

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gaactcttgt	ggagaactgg	tttattttct	gccctgtgcc	gacgagtttc	agctggccaa	720
gaaaggagtc	aagttattaa	aaagcatcac	aatggagatc	ttccaggctg	ggtttttttg	780
tttttggtg	taaaactggg	ggaaangggg	actattttat	ctggccttaa	atcaatnggc	840
aaattaagtc	aagaagaccn	ttttgggaat	gtngactatg	gatnccctcc	taatngaagt	900
gagnagcctt	aaaaaggggg	caangtaang	gttttcnggt	atggaagcca	aaanttttnc	960
cggctnaatg	ggntggntnn	ccaatattnn	taccggcccn	aaangggntt	tttncnnngg	1020
gtcc						1024

&lt;210&gt; 92

&lt;211&gt; 1024

&lt;212&gt; DNA

&lt;213&gt; Homo Sapien

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(1024)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 92

nngnnnnnt	tnngantggg	ccctctagat	gcattgctga	ggggccgccc	gggcaggtag	60
tgcattccata	atttatcgcc	atgtgcaaca	gctttgcgtt	ttctaaggca	caatttttaa	120
tgaaatgatg	tgtagatttc	aatctaataa	cagctcatcc	aaatgacaaa	tatggctgaa	180
atccctccag	tggctgagga	aattttctga	cctatatgga	acccacatgc	aaagaaccca	240
tctagcatgt	aataaataat	cgctagccat	actcaataag	acacggaaaa	attattgctt	300
acataacaga	aaaacatcta	cttgaccccc	ttttatgact	acatcaatct	attaggagtg	360
tatccatagt	ctacattcac	aaaatgtcat	cttgacttat	ttgccattga	tttaaggcag	420
aataaatagt	ccccctttcc	ccagtcttaa	caacaaaaaa	caaaaaacca	gcctggagat	480
ctacattgtg	atgcttttta	ataacttgac	tcctttcttg	gccagctgaa	actcgtcgca	540
cagggcagaa	aataaaccag	ctctccacaa	gagttcctct	ctaaacttct	ccatgggcaa	600
gggtccggagt	tcttgatagc	aaaaaaagtg	atggggagaat	ggaggagaag	taggtattca	660
ttgaagtggg	cagggcataa	tctgtgctgn	aggttcttgc	tgatcacaga	ccaaggcctg	720
accacatcat	ataccacata	gattctatta	agaatggact	taacgctttt	ctttggacac	780
ctgtgcttta	ngccctttta	ggagaacttg	ncanccangg	gtgagcagtg	cttcacacct	840
taaggatgaa	cccttaatctc	ggggcctcat	cttccatata	nccctaaggg	taagnctctt	900
taatggaaga	ctcctnaatt	agnggccttg	aaaagaagca	ggcacccgaa	gggcctgagg	960
ctgacattgg	ctcttttnga	agaataaact	ttccttaccg	naatttgga	aaggaccttt	1020
ggaa						1024

&lt;210&gt; 93

&lt;211&gt; 1024

&lt;212&gt; DNA

&lt;213&gt; Homo Sapien

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(1024)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 93

gngnnnnnt	taactccagc	ttggtagcga	gctcggatcc	ctagtaacgg	ccgccagtgt	60
gctggaattc	gcccttagcg	tggtcgcggc	cgaggtagctt	tttcaaatgt	cactgaaaga	120
attgtttttg	taacagtatg	caaaatgata	ctgtattgtt	agaacaaaaa	tctgtggagt	180
gttaatactt	tgtaaagcaa	attaaagttt	ctaagcagta	taaaaagaga	atgacatcat	240
cccttcttag	tatttccaag	tcttagagta	ctctacaccc	tggtggctat	ttatctgggg	300
ttagacttct	ggagactttt	cagatagact	tgaagtctct	ggccttgccct	gggaattact	360
ggctgcccac	ggaagcactg	gagaaggcgg	tggtctcctt	gcccttgtag	tctgtgctgtg	420
gcgcattttg	attgagttcc	tggttcggct	ggtcagagtg	gctggatagt	gttggcccac	480
tccattcctc	aggttttttt	gaagcgggtg	tcttttaggg	agagcctttt	gttccctggaa	540
cttccttgac	gggtcccttt	tcccttctgg	gttgctctgg	gaacctcttt	ggtgttgatg	600
gggtgttgtt	ggaaaatggg	ctggaggctc	gtggtttcct	ggacatcttc	accagaccag	660
tgtctctcaa	cagtctactc	cagtcacact	ggctncccg	agcttcccca	ggacagtgaa	720
ngcaggccac	aggctanaaa	ctgtagtenc	ccgacattac	aagccaattt	gggnctgtgg	780

gctctgnttt	ccaaatcaac	cctttcanct	tcatttggaa	nccattcag	gaaanccccg	840
cgtaccttgc	ccgggcgggc	cgttcnaaag	ggcgaattct	gcanaaatcc	cttanacttg	900
ggnggncctg	ttnaacctgc	cttttaaagg	gcccattnn	nccctntnna	nnggagcgan	960
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cccc						1024

<210> 94  
 <211> 1024  
 <212> DNA  
 <213> Homo Sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(1024)  
 <223> n = A,T,C or G

<400> 94						
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gaattcgccc	ttcgagcggc	cgcccgggca	ggtacgcggg	gcttcctgga	tggggatcca	120
gatggagggtg	gagggttgat	ttgggaagca	gagcacagca	gcacaaattt	gcttgtaatg	180
tcggcgacta	cagtttctag	cctgctggcc	tgcttctact	gtcctggggg	aagctcgggg	240
agaccagggtg	gactggagta	gactgttgag	agacactggt	ctggtgaaga	tgtccaggaa	300
accacgagcc	tccagcccat	tttccaacaa	ccacccatca	acaccaaaga	ggttcccaag	360
acaacccaga	agggaaaaag	gacccgtcaa	ggaagttcca	ggaacaaaag	gctctcccta	420
aaagaccacc	gcttcaaaaa	aacctgagga	atggagtggg	ccaacactat	ccagccactc	480
tgaccagccg	aaccaggaac	tcaatcaaaa	tgcgccacag	caggaccaca	agggcaagga	540
gaccacggcc	ttctccagtg	cttccttggg	cagccagtaa	ttcccaggca	aggccagaga	600
cttaagtcta	tctgaaaagt	cttccagaag	tctaacccca	gataaatagc	cnaacagggt	660
ggagagtact	tctaagactt	ggaaatctta	ggaaagggat	gatgtcantc	tcattttata	720
ctgnttaaaa	actttaantt	ggcttacaag	tattaaccct	tcacagaant	ttgtctacca	780
tncagnatca	atttggcatc	tggtccaaaa	ccattttttt	agggcanttt	gaaaagtctt	840
tnggcgggga	acaccttaag	ggcgantcca	gncacttggg	nggncgtnan	nnnaaggtcc	900
caactcgenn	caaannttgn	gnaaacatgg	gnnnanattg	gntcctgggg	ggaaatgtat	960
ccgnttacia	nttcccncaa	nntncnaanc	cggannncnt	taagggtaaa	nnccctgggg	1020
gccc						1024

<210> 95  
 <211> 1024  
 <212> DNA  
 <213> Homo Sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(1024)  
 <223> n = A,T,C or G

<400> 95						
gggnnnnnnt	taactccagc	ttggtaccga	gctcggatcc	ctagtaacgg	ccgccagtgt	60
gctggaattc	gcccttttca	gcgcccgccc	gggcagggtac	tttttttttt	tttttttttc	120
cgtctcccca	aagctttatc	tgtcttgact	ttttaaaaaa	gtttgggggc	agattctgaa	180
ttggctaaaa	gacatgcatt	tttaaaaacta	gcaactctta	tttctttcct	ttaaaaatac	240
atagcattaa	atcccaaatc	ctattttaag	acctgacagc	ttgagaagggt	cactactgca	300
tttataggac	cttctggttg	ttctgctgtt	acgtttgaag	tctgacaatc	cttgagaatc	360
tttgcatgca	gaggaggtaa	gaggtatttg	attttcacag	aggaagaaca	cagcgcagaa	420
tgaaggggcca	ggcttactga	gctgtccagt	ggagggtcca	tgggtgggac	atggaaaaga	480
aggcagccta	ggccctgggg	agcccgatcc	actgagcaag	caagggactg	agtgagcctt	540
ttgcaggaaa	aggctaagaa	aaaggaaaac	cattctaaaa	aacaacaaga	aactgtccaa	600
atgctttggg	aactgtgttt	attgcctata	atgggtcccc	aaaatgggta	acctagactt	660
cagagagaat	gagcagagag	caaaggagaa	atctggctgc	cttccatttt	cattctgnta	720
tctcaggtga	actggtanan	gggagacatt	ngaaaaaat	gaaacnacca	aaaccattac	780
taatgaggta	ccttnggncc	gggaacacgc	ttaaggcgaa	ttttgcagaa	atncattaca	840
ctggcggncc	gttcagcatg	cttttaaagg	gcccatttnc	cctttaaggg	agtcgnatta	900

caatttnant gggccgcgtt ttacaacgtn nggaactggn aaaacccctg gggtnnccca 960  
cttnaannnc cttggnnnan aatccccctt tncnaantg gggnnnnnnn ccaaaggccc 1020  
cnaa 1024

<210> 96  
<211> 1024  
<212> DNA  
<213> Homo Sapien  
  
<220>  
<221> misc\_feature  
<222> (1)...(1024)  
<223> n = A,T,C or G

<400> 96  
gngnnnnnnn tnngttnega ntgggcccctc tagatgcattg ctgcagcggc cgccagtgtg 60  
atggatatct gcagaattcg cccttagcgt ggtcgcggcc gaggtacctc attagtaatt 120  
gttttgttgt ttcatTTTTt tctaattgtc cccctctacc agctcacctg agataacaga 180  
atgaaaatgg aaggacagcc agatttctcc tttgctctct gctcattctc tctgaagtct 240  
aggttaccca ttttggggac ccattatagg caataaacac agttcccaaa gcatttggac 300  
agttcttgtt tgttttttag aatggttttc ctttttctta gccttttctc gcaaaaggct 360  
cactcagtc cttgtctgtc cagtggactg ggctccccag ggcttaggct gccttctttt 420  
ccatgtccca cccatgagcc ctccactgga cagctcagta agcctggccc ttcatctctg 480  
gctgtgttct tctctgttga aaatccaata cctcttacct cctctgcatg caaagattct 540  
caaggattgt cagacttcaa acgtaacagc agaaccacca gaaggtccta taaatgcagt 600  
agtgccttc tcaagctgtc aggtctttta ataggatttg ggatttaatt ctatgtattt 660  
ttaaaggaaa gaaataagaa ttgctagttt taaaaatgca tgtcttttaa ccaattcaga 720  
atctgcccc aaactttttt naaaagtcaa ggaccgataa agctttgggg agacngaaaa 780  
aaaaaannnn aaaaagtacc tgccccggcn ggccgttcna aagggcgaaa ttcaacacac 840  
tggcgggccg gtacttaatg gatcccaact cggncccaac cttggggaaa ncatgggcn 900  
taactgggtt cccggggggn aaatggtatt ccggttacia attccccccc annttccana 960  
cccggaaanc cnttaagggt aaaanccctg gngggccena anggggggct nacctcccc 1020  
tnaa 1024

<210> 97  
<211> 1024  
<212> DNA  
<213> Homo Sapien  
  
<220>  
<221> misc\_feature  
<222> (1)...(1024)  
<223> n = A,T,C or G

<400> 97  
gngnnnnnnn nttnnnttat acgccangct tggtagcag ctccgatccc tagtaacggc 60  
cgccagtgtg ctggaattcg cccttagcgt ggtcgcggcc gaggtacatc tgattttata 120  
tgttgtccaa actggtcaat ccagttgctt aacacagaaa gcggacagat gatcagtgtt 180  
gttcttggtc tctcctcaac atcagttttc tttgaccctt ccactgcaca agctccccct 240  
ttcaacattt tcttttttgt tgttaggaaca gatgaagtta atgcacatgc aaatgccaca 300  
tcttctataa ccttagaaga tcttttcgcc ctgccttttag tttcagactg tacagaggga 360  
gagagagaga gaaagagagc acgccagtga gaaagcgagc gcgagcgcca gcgcaagggg 420  
aggagagggt gggagagggc ggaaggggga aagctgtccg tgggagattg tgtcttcatt 480  
tccacggggc tgcattctct gatggtgcac tgaaaaagca gagctcacca gacagagtgg 540  
aaaggcaggg ggaggggcag ggagcaacag aaggaagaga caacaagccc aagacagctt 600  
ccatctcaga cgggaaggccc ccagaagata gaattccagc cgactgaaaa accacccaat 660  
gaacaaagaa gattctagaa aatagaagtg ttgggattac aaagttnngc gtttcattcg 720  
tacctgcccc ggccgncgnt caangggcga attctgcaga tatccatcac actggcggn 780  
gntcgagcat gcatntagan ggcccaantc gncctataag ggagtcgnan tacaattcac 840  
ttgggcgcg ttttacaacg tctgacttgg naaaanccct gnggttnccc aacnttaaac 900  
ggcnttgag nacaattccc ctttttncca anntgggna antnaccaaa agggccccnn 960  
accgatggnc cttttncaaa aagttgggcc aaccttgaaa gggcaaaagg gccccccct 1020

ttaa

1024

<210> 98  
<211> 1024  
<212> DNA  
<213> Homo Sapien  
  
<220>  
<221> misc\_feature  
<222> (1)...(1024)  
<223> n = A,T,C or G

<400> 98  
gnngnnnnnnn ttngaattgg gccctctaga tgcattgctcg agcggccgccc agtgtgatgg 60  
atatctgcag aattcgccct tgagcggcgg cccggggcagg taccgatgaa acgcgcaact 120  
ttgtaatccc aacactttct attttctaga atcttctttg ttcatgggtt gggttttcag 180  
tcggctggaa ttctatcttc tgggggcccct ccgtctgaga tggaaagctgt cttgggcttg 240  
ttgtctcttc cttctgttgc tccctgcccc tccccctgcc ttccactct gtctggtgag 300  
ctctgctttt tcagtgcacc atcaagagat gcagccccgt ggacatgaag acacaatctc 360  
ccacggacag ctttccccct tccgcccctc cccacctct cctccccctg cgtcgcgct 420  
cgcgctcgtt ttctcactgg cgtgctctct ttctctctct ctctccctct gtacagtctg 480  
aaactaaagg caggggcgaaa ggatcttcta aggttataga agatgtggca ttgcatgtg 540  
cattaacttc atctgttcct acaacaaaaa agaaaatgtt gaaaaaggga gcttgtgcag 600  
tgagggggtc aaagaaaaact gatgttgagg agagaccaag aacaacactg atcatctgtc 660  
cgctttctgt gtttaagcaac tggattgaca gtttggacaa catataaaaa tcagatgtac 720  
ctcggncgcg accacgctta gggcgaaatn cagcacactg ggcggccgtt acttaatgga 780  
tcggaactcg naccaagcct tgcgtaaaaa tggggcaatac tggnttcctg nggggaaatg 840  
gtaatccggt tacaatttcc ccacaacntt acaanccgga agcccttaag ngtaaaaccc 900  
ctgggngccc caaagagtga gctaacttnc catttaaatg cgttngctca atggccggtt 960  
ttccatcggg naaaacctgn ngccantgga ttaangaatc ggncaaancc cccggggnaa 1020  
aaan 1024

<210> 99  
<211> 1024  
<212> DNA  
<213> Homo Sapien  
  
<220>  
<221> misc\_feature  
<222> (1)...(1024)  
<223> n = A,T,C or G

<400> 99  
aacgccagct tggtagcgag ctccgatccc tagtaacggc cggcagtggt ctggaattcg 60  
ccctttcgag cggccgcccc ggcaggtaca gataaatccg tgcattgatt gagggagact 120  
agaggggtaaa atgaaatctg ccccatcctt cttacataga cagtgatagc attttgaatt 180  
gttcttctac atttgaaatc ttagctgaaa gatcatcagc caccgacctt ttgtgaagct 240  
agttctctag aacatacaat gttttttaaa aaattaaaaa cacagaagga aaaaagcaag 300  
aaccaacgat aaatggagct tgtgcagaat ctggcagtg tgtggacctg cccatctgtt 360  
ctcccccgcg tactgactga acacactccc cgctttggtt cctgtaggac gggtagata 420  
ccacaccttg gcaaccacca gtaaaaggctc atagtctagc ccttgggagg ccccgatttt 480  
agggctgtgc tcggaggcga cctacgttag ggactgggag aagcgggtac ctccgcccgcg 540  
accacgctaa gggcgaaatc tgcagatata catcacactg gcggccgctc gagcatgcat 600  
ctagagggac caattcgccc tatagtgagt cgtattacaa ttcacttggc ccgtcgtttt 660  
acaacgtcgt gactgggaaa accctgccgt taccacactt aatcgcttg cagcacatcc 720  
ccctttcgcc agctgcgtaa taacgaaaag cccgnaccga tcgccctttc cacagtgtcg 780  
caacctgaat ggcnaatgga ccccccttg taccggcgca ttaaccnccn gccggntnnt 840  
ggggtagccc cactgggacc ggttcaactg gccagggcc taangnccgg ttcnttgggt 900  
ttcttncctt ccttttttng cccgttngcc nggtttttcc cgttaagctt taaannnggg 960  
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nnnt 1024

<210> 100  
<211> 1024  
<212> DNA  
<213> Homo Sapien

<220>  
<221> misc\_feature  
<222> (1)...(1024)  
<223> n = A,T,C or G

<400> 100  
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tgatggatat ctgcagaatt cgcccttagc gtggtcgagg ccgaggtacc cgcttctccc 120  
agtcacctaac gtaggctgcc tccgagcaca gccctaaaat cggggcctcc caagggctag 180  
actatgagcc ttactggtg gttgccaagg tgtggtatct caccgcctcc acaggaacca 240  
aagcggggag tgtgttcagt cagtacgcgg gggagaacag atgggcagggt ccacagcact 300  
gccagattct gcacaagctc catttatcgt tggttcttgc ttttttccct ctgtgttttt 360  
aattttttta aaaacattgt atgttctaga gaactagctt caaaaaagggt cgggtggctga 420  
tgatcctttca gctaagattt caaatgtaga agaacaattc aaaatgctat cactgtgtat 480  
gtaagaaggga tggggcagat ttcatattac cctctagtct cctcaatgc atgcacggat 540  
ttatctgtac ctgcccgggc ggccgctcga aagggcgaat tccagcacac tggcggccgt 600  
tactagtga tccgagctcg gtaccaagct tggcgtaatc atgggtcatag ctgnttcttg 660  
tgtgaaattg ntatccgctc acaattccac acaacatacg agcccggaag ccataaagtg 720  
tnaaagccct ggggtgcctn atgagtgaac taactcacat ttaattgcgt tgcgctcact 780  
ggccccnttt cagtcgggaa aactgcntgc cactgcctaa tgaatcgcc acgccccggg 840  
gaaaaagcgn ttgcgtantg ggcgctnttc cgtttcttg gttaactgac tcnttgggct 900  
ttggccttng gnttngggnn aacgggttna acttncnttn aaangggggn naatccggtg 960  
tnccccgaaa nncggggata acccccggaa anaactttgn ccnaaaggcc ccnaaangg 1020  
cccn 1024

<210> 101  
<211> 1024  
<212> DNA  
<213> Homo Sapien

<220>  
<221> misc\_feature  
<222> (1)...(1024)  
<223> n = A,T,C or G

<400> 101  
gggnnnnnnt tgaatnacac gccagcttgg taccgagctc ggatccctag taacggccgc 60  
cagtgtgctg gaattcgccc tttagcgtgggt cgcggccgag gtacgcgggt attttcttaa 120  
atttcttgaa tgttctttat ggtagtgtta ctaaaaagtt tatgatcaca ttttcattgt 180  
gaacataatt tgaactcatt atcacacact tggaaaatac agaaaagtgg agggaaaaaa 240  
atcatatccc caccatccaa agacatatac tctctcttta tcttgttcat tcttgtttct 300  
gtgcacaggt ttatgattat aactgtgtca aaatgtatat tcaaaatagc tgttacatta 360  
cctttgtgga attatggtta aatactttca cttaattttt ttcaaatggt cctataata 420  
atgttctgat aacagtgtat tatgtgtgtc tccattgggtg tgcataatac ataccagag 480  
gaaaaattag aaaataaagt aaattatttt aaaaaattac ctatattccc aacacctaac 540  
aactactgct aacatcttga tctgtttcct ctatcttgtt tcagtgcaca cgcttgtgat 600  
aacagtgtta aatatgtgtg cataaagtct taaatgaaaa gatgtggaaa ataactaaaa 660  
tagtgttgtc attgtgggaa tttggttaaa tattttgtct caaattcctt aaataatctt 720  
tggtgttttg gtaataaatt ttaatgatgt attttccatt acaaatataa tacatactca 780  
tacaaaactt tggaaaatta gtaagaaaaa ttcacacata tccccacacc caacaccaat 840  
ttaactggtn accactctga ctgngcncnta agctgggatt antttaggng tagtggataa 900  
gtatgcctaa aggccaaaaa tgggaagaag gatgaaaanc cngaaaatan ttnccctggg 960  
gtnnggggaa taagggggat ttgggttcgg ttcctttgaa agggcatnnn tttcaagggg 1020  
tttt 1024

<210> 102  
<211> 1020

<212> DNA  
<213> Homo Sapien

<220>  
<221> misc\_feature  
<222> (1)...(1020)  
<223> n = A,T,C or G

<400> 102

ggagnnnnntt	aaacgccagc	ttggtaccga	gctcggatcc	ctagtaacgg	ccgccagtgt	60
gctggaattc	gccctttcga	gcggccgccc	gggcagggtac	tctttctctc	cctcctctcg	120
aatttaattc	tttcaacttg	caatttgcaa	ggattacaca	tttactgtg	atgtatattg	180
tgttgcaaaa	aaaaaagtgt	ctttgtttaa	aattacttgg	tttgtgaatc	catcttgctt	240
tttccccatt	ggaactagtc	attaacccat	ctctgaactg	gtagaaaaac	atctgaagag	300
ctagtctatc	agcatctgac	agggtgaattg	gatggttctc	agaaccattt	caccagaca	360
gcctgtttct	atcctgttta	ataaattagt	ttgggttctc	tacatgcata	acaaaccctg	420
ctccaatctg	tcacataaaa	gtctgtgact	tgaagtttag	tcagcaccct	cacaaactt	480
tatttttcta	tgtgtttttt	gcaacatatg	agtgttttga	aaataaagta	cctcggccgc	540
gaccacgcta	agggcgaatt	ctgcagatat	ccatcacact	ggcggccgct	cgagcatgca	600
tctagagggc	ccaattcgcc	ctatagttag	tcgtattaca	attcactgcc	cgctgtttta	660
caacgtcgtg	actgggaaaa	ccctgcgtta	cccaacttaa	tcgccttgca	gcacatcccc	720
ctttcgccag	ctggcgtaat	aacgaaaagc	cccgaccgca	tcgccttttc	caacaggtgc	780
gcaacctgaa	tggcgaaatg	gacccccctt	ggaaccggcg	cantaaaccc	ccgncggggn	840
mntngggta	ccccacggg	ganccgttca	cttggecann	gccctaangn	ccggttcctt	900
tnggtttctt	tccttctctt	ttgcccggtt	gnccgggttt	tcccggnaag	ctttaaaaac	960
gggggcctcc	ccctttangg	gtccnaataa	nggcttttac	gggnccttng	aacccccaaan	1020

<210> 103  
<211> 1021  
<212> DNA  
<213> Homo Sapien

<220>  
<221> misc\_feature  
<222> (1)...(1021)  
<223> n = A,T,C or G

<400> 103

ggagnnnnntn	ngnnngggccc	tctagatgca	tgctcgagcg	gccgccagtg	tgatggatat	60
ctgcagaatt	cgcccttagc	gtggctcgcg	ccgagggtact	ttattttcaa	aacactcata	120
tgttgcaaaa	aacacataga	aaaataaagt	ttgggtgggg	tgctgactaa	acttcaagtc	180
acagactttt	atgtgacaga	ttggagcagg	gtttgttatg	catgtagaga	acccaaacta	240
atttattaaa	caggatagaa	acaggctgtc	tgggtgaaat	ggttctgaga	accatccaat	300
tcacctgtca	gatgctgata	gactagctct	tcagatgttt	ttctaccagt	tcagagatgg	360
gttaatgact	agttccaatg	gggaaaaagc	aagatggatt	cacaaaccaa	gtaattttta	420
acaaagacac	tttttttttt	gcaacacaa	atacatcaca	gtgaaatgtg	taatccttgc	480
aaattgcaag	ttgaaagaat	taaattcaga	ggaggggaga	gaaagagtac	ctgcccgggc	540
ggccgctcga	aagggcgaat	tccagcacac	tggcgccgct	tactagtggg	tccgagctcg	600
gtaccaagct	tggcgtaatc	atggtcatag	ctgnttcctg	tgtgaaattg	gtatccgctc	660
acaattccac	acaacatacg	agcccggaag	cataaagtgt	aaagccctgg	gggtgccta	720
gagtgagcta	actcacatta	aatgcgttgc	gctcactggc	cgctttncag	tccgggaaac	780
ctgtcgtgcc	agctgcatta	atgaatccgg	ncaacgcccc	ggggaaaaag	cggttgcgta	840
ttgggcgctc	ttncgctttc	ttggttactg	gctccttng	cctcggccgt	tccgnttcg	900
gnnaaccggt	atcagcttac	ttcaaangcg	gnaaatccgg	tttnccnga	aatccggggg	960
ttaacnccag	gaaaaanaacc	tttgaaccna	aaggggcccn	aaaaggggcc	ggaaccctaa	1020
a						1021

<210> 104  
<211> 1017  
<212> DNA  
<213> Homo Sapien

<220>  
<221> misc\_feature  
<222> (1)...(1017)  
<223> n = A,T,C or G

<400> 104

ggagnnntta	atcnacgccc	gcttggtacc	gagctcggat	ccctagtaac	ggccgccagt	60
gtgctggaat	tcgcccttag	cgtggtcgcg	gccgaggtag	tcagctgtct	taataggatg	120
aagccttaag	cagtggaaat	ttcagttatt	ttccacagta	ttccattttg	gaggatttgg	180
ggtgtttact	ttttaaatc	ttgaacaact	taacctccat	gaggctttgt	gaagtcagct	240
gtgaccaccc	tcctcttact	gtgttctcag	tattcattca	cttccaggga	agaatgacag	300
ccacaggagg	atgggtgggg	gcaagaatga	gagtcacagg	atccagattt	agcctcagat	360
cttccccatt	cagggaagggt	tttccattta	acaagagcac	tagtatgaaa	acattaggga	420
caaatctccc	atgtctttga	aattcggatt	ctcctcttga	gatccccctc	ctcacctgcc	480
aatcaacttt	ataagggcac	aagtgggtcac	tggttttcct	tcacacagggt	tgagggttctc	540
agcttttcct	aagcgaccca	gcagctccgc	tggttttcaga	gtgaatatgt	taagctttga	600
tgagattcta	ttttcagtaa	gttagtgctt	ctgggacact	tggagaaagc	tgtgagagtc	660
attggctacg	caagaacaaa	cgaaagctga	tcctaaaagt	gatccaatct	aagaaaatgg	720
taaaacgagc	tctggccaca	gcacagaatt	ttatgtgang	aactcagatt	ttgaagact	780
taacaattgc	agaaaaaggn	tcagcctgn	acacccatag	cccaactttt	ntgagccana	840
ctttgggttt	tggnggggga	cntggcacca	tgtttgnacc	tggccggccg	gnccgttcna	900
aagggccaaa	ttntgggnga	aatnccttac	actggggggc	cgtttgagca	tgccntnaaa	960
ngggcccaan	tngnccctta	aaggggggcn	nttccaatt	nnctggggcc	ggttttn	1017

<210> 105  
<211> 1024  
<212> DNA  
<213> Homo Sapien

<220>  
<221> misc\_feature  
<222> (1)...(1024)  
<223> n = A,T,C or G

<400> 105

ggagnnnttt	nnntnnngan	tgggccctct	agatgcatgc	tcgagcggcc	gccagtgtga	60
tggatatctg	cagaattcgc	ccttttcgagc	ggccgcccgg	caggtacaaa	catgtgccac	120
gtcaccacac	aaaaccaaag	tctgtctcaga	gaggtgggct	atggtgtgca	ggctgcaacc	180
tttctctgca	attgttaagt	cttcaaaaat	ctgagttcct	cacataaaaat	tctgtgctgt	240
ggccagagct	cgttttacca	ttttcttaga	ttggatcact	tttaggatca	gcttcggtgt	300
tctttgcgta	gacaaatgact	ctcacagctt	tctccaagt	tcccagaagc	actaacttac	360
tgaaaataga	atctcatcaa	agcttaacat	attcactctg	aaaacagcgg	agctgctggg	420
tcgcttaagg	aaagctgaga	acctcaaacc	tgtggaagga	aaaccagtga	ccacttgagg	480
ccttataaag	ttgattggca	ggtgaggaag	gggatctcaa	gaggagaatc	cgaatttcaa	540
agacatggga	gatttgtccc	taatgttttc	atactagtgc	tcttggttaa	tggaaaaccc	600
ttcctgaatg	gggaagatct	gaggctaaat	ctggatcctg	ggactctcat	tcttgcccac	660
caccatctcc	ctgtggctgt	cattcttccc	ctgaagtga	tgaatactga	gaacacagta	720
aggaaggagg	gtggtcacaa	gctgacttca	caaagcccta	atggangggt	aagttgggtca	780
agaatttnaa	aagtaacccc	cccaaactct	ccaaaaatgg	gaatactggt	ggaaaataac	840
ctggaaattn	ccctgggtta	aggcttcatt	ctattaagac	cgcttgagta	cccttggccg	900
ngaacccctt	taaggggcga	ntncaacaca	ctggnggggc	cggtacctaa	nggatcccaa	960
ctnggnaccc	aancnttggg	gaaancatng	ggccataact	gggttcccgg	ggggaaatgg	1020
taat						1024

<210> 106  
<211> 1007  
<212> DNA  
<213> Homo Sapien

<220>  
<221> misc\_feature  
<222> (1)...(1007)



&lt;223&gt; n = A,T,C or G

&lt;400&gt; 106

ggagnnnnntt	aaacgccagc	ttggtaccga	gctcggatcc	ctagtaacgg	ccgccagtgt	60
gctggaattc	gcccttagcg	tggtcgcggc	cgagggtacac	agaatagctg	agcagttcac	120
ttcagggatc	aggctcatctc	tgctcctcct	agtttcacca	tggtctggca	ataaaaaaca	180
catattatat	cctgggttttc	tctatccttg	cattactaag	gtgactgtct	ctctttatac	240
atccttgtat	gggtctccca	gtattagcaa	gattgtatat	ctgtaaagaa	tgtccagttt	300
tgtaaataatt	tccttgccctt	tttttttctt	tttttacatc	tgattttaat	gcttcgttaa	360
cttcaaaaagg	aactggtaga	gttcagaagg	tgagctgttg	tttttctaaa	cctcttccca	420
ggaaggggac	attgacactt	gaatttttgt	caactttttc	ctcattagaa	ggaagtaga	480
aagccttact	gtaggattttt	taaaaaaaaaa	tccatctcac	cccatattgg	tcttaataaa	540
gtatagacta	attaacctaa	gctaccttta	acaacgtaga	atttaanatg	ggttcatata	600
tgtgagaaaa	acctgaatat	aggacagggg	tcctactttt	ttccccacct	ctgtcgccca	660
ggctagagta	ntaantgggt	gatcttggcc	cactgcaacc	tctgcttcta	gggtcaagtg	720
attctcctgc	tcagcctncc	aagtancccg	ggaattggaa	gagtatgcca	ccacgcccg	780
ctactttttg	gaattttagt	nnaaaacagg	ttcatcatgn	tggncccnag	agggcnctta	840
antcctgncc	ttnagngatc	cccccnana	ngaaacctg	gncncccaa	nnnncngggn	900
tntagcnnnn	ccnccnggcc	cannctactt	tnnnaannnn	nnnnnnnnnn	nnnnnnnnnn	960
nnnnnnnnnaa	nnngnnnnnn	nccngnnngn	ccnnnnnnng	gnaantc		1007

&lt;210&gt; 107

&lt;211&gt; 1024

&lt;212&gt; DNA

&lt;213&gt; Homo Sapien

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(1024)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 107

gnagnnnnnn	nngattgggc	cctctagatg	catgctcgag	cgcccgccag	tgtgatggat	60
atctgcagaa	ttcgccctta	gcggccgccc	gggcaggtac	tttttttttt	tttttttttt	120
tttttttttt	aattaattag	aaagtaggct	gggcacggng	gctcatgcct	ataatcccag	180
cacttgggga	ggccgaggat	ctcctctctg	gnngatcact	tgagggcagg	agttaagaga	240
ccatcctggc	caacatgatg	aaaccctgtc	tctactaaaa	atacaaaaag	tagctgggcg	300
tggtggcata	ctcttacaat	cccggctact	tgggaggctg	aggcaggana	atcacttgaa	360
cctaggaagc	agaggttgca	gtgggccaag	atcacaccac	tatactctag	cctgggcgac	420
agaggtgggg	aaaaaagtag	gaccctgtc	ctatatccag	gtttttctca	catatatgaa	480
cccactctaa	ttctacgttg	ttaaaggtag	cttaggttaa	ttagtctata	cttattttaag	540
accaatatgg	ggtganatgg	attttttttt	aaaaatccta	cagtaaggct	ttctactttc	600
cttctaata	ggaataagg	gacaaaaatt	caagtgtcaa	tgcccccttc	ttggggaaga	660
ggtttagaaa	aacaacagct	caccttntga	acttttacca	gttccttttt	gagttaaccg	720
aagcnttaaa	aatcagatgt	aaaaaangaa	aaaaaaaggc	cgggaaattt	ttaccaaact	780
nggacattct	ttacagatat	acaatcttgc	taaaacctgg	gaaaaccctt	ccnngggtgt	840
ttaaagggga	aacagtcccc	cttataatgc	ccgggggttna	gaaaancccg	gatttttnaa	900
aaaggggttt	tattgcccga	aactggggga	accttngggg	ggncccaaaa	nnaacctgan	960
cccctgaagg	naccgggttn	annnnntttt	tgggaccttg	gccgggaacc	cccttngggg	1020
ggna						1024

&lt;210&gt; 108

&lt;211&gt; 470

&lt;212&gt; DNA

&lt;213&gt; Homo Sapien

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(470)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 108

actatgacca	tgattacgcc	aagcttggtg	ccgagctcgg	atccactagt	aacggccgcc	60
agtgtgctgg	aattcgccct	ttcgagcggc	cgcccgggca	ggtactattt	ttttttttt	120
ttttcggtgn	tttgacattc	cttgaatctg	ttttttattc	cccttccaca	gaacaggcct	180
gggactttcc	aacaccctgc	taagggaagt	ctgtgtccaa	gtcccaccca	ggctgggttg	240
tccccacctn	ctncagccca	cacagcccag	gcagcatccg	ggccagtgcc	ctgcatgaca	300
nagggctctt	gttgtgtaat	gnttggtccc	aagttgcatt	ttctaaccga	atcagtgtgt	360
tttcatgaaa	ctgagtgtta	ctgtggacca	gtaagttnct	ctgttgtctt	cagtgggtct	420
cctgtgtggc	tcaagggttc	tctgtgagag	tctggatttt	catttctggg		470

&lt;210&gt; 109

&lt;211&gt; 808

&lt;212&gt; DNA

&lt;213&gt; Homo Sapien

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(808)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 109

gggcctctag	angcatgctc	gacggccgcc	atgtgatgga	tatctgcaga	attcgccctt	60
agcgtggctg	cggccgaggt	acaagtctgc	ctaagagaca	gaagtgagtn	ttataatcta	120
cttggccatt	cctcccagca	gagaagcagc	aggtagatat	ggcatgcact	gtgcctgctg	180
ctgctgctct	tgtggcgaa	actcagatgt	ggaaccatag	agggaccttg	aggagctggg	240
acatgattct	ttagagaaga	gaagagacgg	ggagcacagc	atgagaatgg	ccagtcaacc	300
catttcaaat	tcttttatta	aagtgcctccc	cgaggggcct	tgcacaaaaga	tgatggggag	360
agcagaactg	ctgctccttg	acagaactct	gacccctaca	ctttgttttg	agtgggcttg	420
gggacagtca	caagccatga	aacatgaatc	caaaatggtc	cccagatgag	ccatgggtgaa	480
ccaacagatg	caagcaactt	cttaaaactgc	tctattaaac	actgctttat	atgtgtcccc	540
atgatacaga	aaagtgggat	ggggccagcc	attccagaaa	tgaaaatcca	gactctcaca	600
gagaaccctt	gagccacaca	ggaagaccac	tgaagacaac	agaggaaacta	ctggtccaca	660
gaaacactca	gtttcatgaa	aacacactga	ttcgggtaga	aaatgcaact	tgggaacaaa	720
cattacacaa	caaagacctt	ctgtcatgca	gggcactggc	ccggatgctg	ctgggctgtg	780
tgggctggaa	gangtgggga	caaccac				808

&lt;210&gt; 110

&lt;211&gt; 471

&lt;212&gt; DNA

&lt;213&gt; Homo Sapien

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(471)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 110

actatgacca	tgattacgcc	aagcttggtg	ccgagctcgg	atccactagt	aacggccgcc	60
cagtgtgctg	gaattcgccc	tttcgagcgg	cgcccgggca	aggtacagcg	acgtgatgat	120
gtagaggcgc	ttcccatcca	ggctgagctg	gatcatctga	gggcctncag	ccaccggtt	180
tcccttgacc	actaggggct	ctggctggga	ctttagtctc	tcgtcctcca	gcacttgcc	240
agggcctccc	ttacaatgc	tgctccgag	gaagagctgt	cctgtgaggc	gggtctctg	300
tgggtcagag	atgtcatact	gcctcaggtc	cccatgcagc	cagttgtgta	agtagaggaa	360
gcggctcgtc	agggagagca	ggatgtcggt	gatcaggcct	ggcatttcgg	gcagcagcca	420
gcccttcaact	ttcttggggg	gcacctggat	caccttctcc	actgacctg	t	471

&lt;210&gt; 111

&lt;211&gt; 468

&lt;212&gt; DNA

&lt;213&gt; Homo Sapien

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(468)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 111

actatgacca	tgattacgcc	aagcttggtg	ccgagctcgg	atccctagta	acggcccgcca	60
gtgtgctgga	attcgccctt	agcgtgggtcg	cggccgaggt	acttnttnc	tttntttaca	120
tctgatttta	atgcttcggt	aacttcaaaa	ggaactggta	gagttcanaa	ggtgagctgt	180
tgtttntcta	aacctnttcc	caggaagggg	acattgacac	tggaattttt	gtcacctttt	240
tcctcattag	aaggaaagta	naaagcctta	ctgtaggatt	tttaaaaaaa	aatccatctc	300
accccatatt	gggtcttaaat	aagtatagac	taattaacct	aagctacctt	taacaacgta	360
gaatttagat	gggttcatat	atgtgagaaa	agcctgaata	tangacaggg	gtcctacttt	420
tttccccacc	tctgtcgccc	aggctggagt	atagtgggtg	gatcttng		468

&lt;210&gt; 112

&lt;211&gt; 813

&lt;212&gt; DNA

&lt;213&gt; Homo Sapien

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(813)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 112

attgggcctc	tnnagcatgc	tcgacggccg	ccatgtgatg	gatatctgca	gaattcgccc	60
tttcgagcgg	cgcgccgggc	aggtaaccatg	ctgacttctt	ggtatctttt	anggcctaata	120
tttcccttcc	ttgagattac	tgtagtgtgt	tccagctaat	ttctatttgg	aaacgagttg	180
gaacagctga	aaactaggta	ttattgaagg	caaagcagcc	tcacgtcagt	tttttatcag	240
ctcatttggg	aagttttntt	ttttttntn	ttaattaatt	agaaagtagg	ctgggcacgg	300
nggctcatgc	ctataatccc	agcacttggg	gaggccgagg	atctcctctc	tgggtggatca	360
cttgagggca	ggagttaaga	gaccatcctg	gccaacatga	tgaaaccctg	tctctactaa	420
aaatacaaaa	agtagctggg	cgtgggtggca	tactcttaca	atcccagcta	cttggggaggc	480
tgaggcagga	gaatcacttg	aacccaggaa	gcagagggtg	cagtggggcca	agatcacacc	540
actatactcc	agcctgggcg	acagaggtgg	ggaaaaaagt	nagaccocctg	tcctatatte	600
aggctttgct	cacatatatg	aacccatcta	aattctacgt	tgtaaagggt	agcttaggtt	660
aattagncta	tacttattta	agaccaatat	ggggtganat	ggattttttt	ttaaaaatnc	720
tacagtaagg	ctttctactt	tccttctaata	gaggaaaaang	gtgacaaaaa	ttcaagtgtc	780
natgcccctt	cctgggggaag	aggtttaaaa	aat			813

&lt;210&gt; 113

&lt;211&gt; 506

&lt;212&gt; DNA

&lt;213&gt; Homo Sapien

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(506)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 113

nccaacttgg	taccganctc	ggatccctag	taacggcana	cattganctg	atagcccaag	60
cttggtaccg	agctcggatc	cactagtaac	ggncgccagt	gtgctggaat	tcgcccttcg	120
agcggccgcc	cgggcaggta	cgcggggcct	ctggcgctac	catggcggtt	ggcaagagtc	180
accgggatcc	ctacgcgacc	tccgtgggcc	acctcataga	aaaggctaca	tttgctggag	240
ttcagactga	agattggggc	cagttcatgc	acatctgtga	cataattaac	actaccagg	300
atggggccaaa	agatgcagtg	aaagctttga	agaaaangat	ttncaaaaac	tacaatcata	360
aagaaatcca	acttaccttg	tcacttattg	acatgtgtgt	gcagaactgt	ggtccaagtt	420
tcagttctct	gattgtgaag	aaggaatttg	ttaaagagaa	tttagttaag	ctactgaatc	480
ccagatacaa	cttgccatta	gacatt				506

&lt;210&gt; 114

&lt;211&gt; 813

<212> DNA  
<213> Homo Sapien

<220>  
<221> misc\_feature  
<222> (1)...(813)  
<223> n = A,T,C or G

<400> 114  
gggccccntnn agctgctcga gcgcccgcca gtgtgatgga tatctgcaga attcgccctt 60  
agcgtggctg cgcccgaggt acaacttatt ctaaatattt tcattttctg tgttctaaat 120  
agaaatatta agttgcagta aaaagagaaa aaaaggctat ttagcattac aaagaatcat 180  
atttaaaggc tgcccaatgt agagtctagt gacctgttca ggacacctga aatataatta 240  
aatgacaatt atcaagggtt taacaattta taattctaaa ccagaggatt ataaagaagt 300  
gcaaattgac ttttacattc aacttttagtt aaatgaaggc actcagtatt ctccctgaat 360  
aatacattca gtttctcaca ttttatgctt tcatctattc agaattattt catagtaaaa 420  
taatctactc ttatcacagc tgtgtgacga tttctaaatg taggaaggcc tgtgaaacat 480  
gacactgcag ttaaatgggt tggcctaagg actaagtaat ttttctctcg ctgaagtttt 540  
aagtgagat ttgttccaaa caagttctgt tgaaatctca cgctgtgtgc aggaatcagt 600  
gttatccctg aactgttatt ctatttaatc ttcattatag cagaaatgtg ccaccatggc 660  
tttgacatgt tggtaggtat tgtcttcag gcttcaaagc tgcacagagt ctacgtttta 720  
gagagttggc acctttgatg tggtagtgag ctgatcatnc actttcttct cagtcaccat 780  
cattttgagc tcctttgtgc tggtagcat can 813

<210> 115  
<211> 471  
<212> DNA  
<213> Homo Sapien

<400> 115  
accagctatg acctgattac gccaaagcttg gtaccgagct cggatccact agtaacggcc 60  
gccagtgtgc tggaaattcgc ccttagcgtg gtcgcccgcg aggtaccatg attttgtgtt 120  
caggaaccaa agaacatgaa atattacatt cttcagaatg ttttcttgt gccattaaat 180  
gaatcaagta aatgaggcaa tgaggcacia ataaggaatt tagatttcag caatattttg 240  
atccactgta gctttcagtt tctgaaactt tggaaaggcc tacatacttt gtaagaattt 300  
ttggcttata ttgttaataa tcaacagagc caagaaaaca tttcttagaa tgttcaaaga 360  
caccacctta gccttccttc cctgcagcta taacattatt tttctaagag aaaaggcaga 420  
gagtcctcac aaagccatac cagacttaaa attaccagag aacatttttg t 471

<210> 116  
<211> 818  
<212> DNA  
<213> Homo Sapien

<220>  
<221> misc\_feature  
<222> (1)...(818)  
<223> n = A,T,C or G

<400> 116  
ttncannggg cccctagagc atgctcgagc gccgccatgt gatggatata tgcagaattc 60  
gccctttcga gcggccgccc gggcaggtag tttttttttt tttttttttt tttttttgtg 120  
tgttgtcttg aactcctggc ctcaaagtat cttcctgcct cagcctccca aagtcctggg 180  
attactggca tgagtcacca cacctggctc attccttttc ttaatatggc tctaaatggc 240  
tttttatttt ttttgctttg gcaatttatt tctaggaat taaataattc tttcattata 300  
atcaaggga tgaagacct caggaggtcc atagtggagt tcaaaacat atggagtcca 360  
ctattctaca agattataca ggcaataata taagtattct aagggtgttt aggtagattt 420  
atagatgtta gatttcaaaa tgggttaata agtgtttatg aatttccaag gtgtatcact 480  
aacttctcaa gatgaaatca tatatagaaa ctatcaaaat tttccttgtt ctgctgtcaa 540  
gaaatgaata atataactg atataactgt aactcacatc taaagggata gtgcttgaat 600  
aagctaattt acaatgagtt caaggtatta ttttaaaatt cttattgncc ttagacaata 660  
attatgccaa caaatgtgaa aaatattaaa tctccttctg ntaatttttc cagttttatt 720

```

accctacttt atttaccttg ggaaaatgga tgacatnt
780
818

```

```

<210> 117
<211> 467
<212> DNA
<213> Homo Sapien

```

```

<220>
<221> misc_feature
<222> (1)...(467)
<223> n = A,T,C or G

```

```

<400> 117
accactatga cctgattacg ccaagcttgg taccgagctc ggatccacta gtaacggccg 60
ccagtgtgct ggaattcgcc ctttcgagcg gccgcccggg cagggtactac tggttttctc 120
cctggcttca cgtgtctctg tgttccccta tgcctggggtg tcctcccagt gctttcaggc 180
ttcatctcct tcctaaccctc tcctttctat tttttttttt ttttttgaga tggagtcttg 240
ctcagtcgcc cangctggag tgctaaccctc tcctttcatg tggagatgga caggggatggc 300
aggagcactg agtgctcttg acaacaccat tgaagatgat gctgacgac agctaccctg 360
tggagaaggc aggccagggt gggtagaggg ggagctcctt ggaagtcagg ggggtctgtaa 420
ggacagcaag gatctctttg tcccaaccctc cagcagcctt tatgggt 467

```

```

<210> 118
<211> 815
<212> DNA
<213> Homo Sapien

```

```

<220>
<221> misc_feature
<222> (1)...(815)
<223> n = A,T,C or G

```

```

<400> 118
gggcctctna agcatgctcg acggccgcca tgtgatggat atctgcagaa ttcgccctta 60
gcgtgggtcgc ggccgaggta cctgggggtct cagggttgct ctgggcctga tcatccactc 120
agatctgtaa ggaggatttg caggatccat ttagaaagat cctcccttac ttccacaagc 180
atggcctttg gctcttaaat acctgtgctg ggggtttgta attatagaaa caacaggaac 240
caaaactcat taatgttgag ctacaaacca gagggagct tctttctcaa aacagggctc 300
aggcctagaa aaatctagtt ttctgaaatc gctagccagc aacagcactg agatggccat 360
cccagaaaca aggccaaacac agaagcacc ataaaggctg ctggaggttg ggacaaagag 420
atccttgctg tccttacaga cccctgact tccaaggagc tccctctca cccagcctgg 480
cctgccttct ccacagggta gctgacgctc agcatcatct tcaatggtgt tgtaagagc 540
actcagtgct cctgccatcc ctgtccatct ccacatgaaa ggagaggtta gcaactccagc 600
ctgggcgact gagcaagact ccatctcaaa aaaaaaaaaa aaaatagaaa ggagaggtta 660
ggaaggagat gaagcctgaa agcactggga ggacacccca gcatagggga acacagagac 720
acgtgaagcc agggagaaaa ccagtagtac ctgcccggcg gccgntcgaa agggcgaatt 780
ccagcacact ggcgggcccgt tactagtgga tccct 815

```

```

<210> 119
<211> 811
<212> DNA
<213> Homo Sapien

```

```

<220>
<221> misc_feature
<222> (1)...(811)
<223> n = A,T,C or G

```

```

<400> 119
gggcctctnn agctgctoga cgcccgccat gtgatggata tctgcagaat tcgcccttag 60
cgtgggtcgc gccgaggtag tctatttttt gcttgatgta ttgatgggtc tttcattatc 120

```

```

tgtgattgac attctatgag taggtgcttt tgctttgcct ataagtcggt attatgaagg 180
aggaatgggtg aataagaagg taatttagaa aagcctatat taaatatacc atgaacattg 240
aatatagcaa gatcttattc tctagttggt atcttagttg ataaattctg tatgtgttat 300
gtgtttgtgt atacatatgt acttaatctg atcgggtatct aaaagaagga aaggatgggtc 360
aggaacacatt tatcataaat gtagccaagg atatcaatta gggtagacaa gaataggaca 420
aaaataggcc agagctcctg aggaggtgat atgggtccct tgatttgacg aaaatgacag 480
cctatccaag tggcccagtg tatgcctccc agtagcagtg ggcattgtaa ctgcagcgac 540
cttattttta aaaccaaata cctagtatgt ggacaaagaa catgacaata tttggtacct 600
gcccggggcg cgcgtcgaaa gggcgaaattc cagcacactg gcggccgtta ctagtggatc 660
cgagctcggt ccaagcttgg cgtaatcatg gtcatagctg gttcctgtgt gaaattggta 720
tcccgtcac aattncaca cacatacgaa ccggaagca ttaaagtgtg aaagcctggg 780
gtgcctaagt aagtgaagta ctcacattaa a 811

```

<210> 120  
 <211> 466  
 <212> DNA  
 <213> Homo Sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(466)  
 <223> n = A,T,C or G

```

<400> 120
anttgcctg attacgcaa gcttgggtacc gagctcggat ccactagtaa cggccgccag 60
tgtgctggaa ttgcgccctt cgagcggccg cccgggcagg taccacggt ttgctccaca 120
ctccttgacc acaggggctc ggacacaaac ccctgtcacc aggagagtca gtcagcacta 180
cttgggaggg cttaaaggaa atttggaaat aaaattccaa agtttggagt aaaaaaattc 240
aagtgttgat tttatatctt ttccctttct gacacagcct aaagcgtagg gggaaacatg 300
gtttatctgt gggagataaa caagatggag tcccaaagac tttacaaaaa tattttttta 360
aaaatccact agaatagaaa atacattatt tagatatact ttatgctgag agtgagtata 420
tatgcttgtc ctatttaaac ttgtgagaaa aagtgggtatc ccttng 466

```

<210> 121  
 <211> 812  
 <212> DNA  
 <213> Homo Sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(812)  
 <223> n = A,T,C or G

```

<400> 121
ttgggccent nnagcatgct cgagcggccg ccagtggtgat ggatatctgc agaattcgcc 60
cttagcgtgg ttgcggccga ggtacaactc tccagggcac aatacgttta cagctgcctt 120
tccttcacat actttttctaa ttcagaacta ctcacaattc taagcaaatt cccattcacg 180
aagtctgtcc ataatgcgac cttctctttt tttacatat acatctttaa aaacaaatat 240
ataaaaaatt cttattttgc tggaaatgct tcaatttttc acattttaca tgatcatcac 300
atattttct tatattgaaa ggcatggttt ctgttgacat gtcgtgcaaa gccaaaaaaa 360
aaaaaaaaaa aaagggctgg attgcttttc aattgggtcta acacttttcc ttgtctaggc 420
tttggtattt aaagttcatg acagccccac caccagtaga aaccccaagg cttgcatttc 480
ctggtaatcg actggaaacg tccoctgttg gccatgctaa gattccttca acagggtcac 540
ctgcattta ttctccttct gccccacccc cacaatgaaa caagatagcc cccatatttc 600
taaatgtatc aagggatacc actttttctc acaagtttaa ataggacaag catatatact 660
cactctcagc ataaagtata tctaaataat gtattttcta ttctagngga tttttaaaaa 720
aatattttgg taaagtcttt ggggactcca tcttggttat cttccacaga taaacatgt 780
tcccctacg ctttaggctg tggtcagaaa gg 812

```

<210> 122  
 <211> 467  
 <212> DNA

<213> Homo Sapien

<400> 122

actatgacca	tgattacgcc	aagcttggtg	ccgagctcgg	atccactagt	aacggccgcc	60
agtgtgctgg	aattcgccct	tagcgtgggc	gcggccgagg	taccatgctg	acttcttggt	120
atcttttaag	gcctaatttt	cccttccttg	agattactgt	agtgtgttcc	agctaatttc	180
tatttggaaa	cgagttggaa	cagctgaaaa	ctagggtatta	ttgaaggcaa	agcagcctca	240
cgtcagtttt	ttatcagctc	atttgggaag	tttttttttt	tttttttttt	ttttaattaa	300
ttagaaaagta	ggctggggcac	ggtggctcat	gcctataatc	ccagcacttg	gggaggccga	360
ggatctctct	tctggtggat	cacttgaggg	caggagttaa	gagaccatcc	tggccaacat	420
gatgaaaccc	tgtctctact	aaaaatacaa	aaagtagctg	ggcgtgg		467

<210> 123

<211> 864

<212> DNA

<213> Homo Sapien

<220>

<221> misc\_feature

<222> (1)...(864)

<223> n = A,T,C or G

<400> 123

gggcctctng	agcatgctcg	agcggccgcc	atgtgatgga	tatctgcaga	attcgccctt	60
tcgagcggcc	gcccgggcag	gtactttttt	tttttttttt	tcttttttta	catctgattt	120
taatgcttcg	ttaacttcaa	aaggaaactgg	tagagttcag	aaggtagagct	gttgtttttc	180
taaacctctt	cccaggaagg	ggacattgac	acttgaattt	ttgtcacctt	tttctctatt	240
agaaggaaaag	tagaaagcct	tactgtagga	tttttaaaaa	aaaaatccat	ctcaccccat	300
attggtctta	aataagtata	gactaattaa	cctaagctac	ctttaacaac	gtagaattta	360
gatgggttca	tatatgtgag	aaaaacctga	atataggaca	ggggtcctac	ttttttcccc	420
acctctgtcg	cccaggctag	agtatatgtg	tgtgatcttg	gcccactgca	acctctgctt	480
cctaggttca	agtgattctc	ctgcctcagc	ctcccaagta	gctgggattg	taagagtatg	540
ccaccacgcc	cagctacttt	ttgnattttt	agtagagaca	gggtttcatc	atgttgacca	600
ggatggnctc	ttaactcctg	ccctcaagtg	gatccaccag	agaaggagat	cccttgggnt	660
tccccaaagt	cctggggatt	attaggcatt	gaagcccacc	cgtggcccca	agccctacnt	720
tttcttaaat	ttaaatttaa	aaaaaanaaa	nnnnnnnnnn	nnaaaaaaa	ccttttcccc	780
aaattgganc	ctgggtttta	aaaaacctgg	acccttnaan	gggcntggnt	tttggccctt	840
tnaaataaat	tnccctaag	gnnt				864

<210> 124

<211> 467

<212> DNA

<213> Homo Sapien

<220>

<221> misc\_feature

<222> (1)...(467)

<223> n = A,T,C or G

<400> 124

antatgacct	gattacgcc	agcttggtac	cgagctcgga	tccactagta	acggccgcc	60
gtgtgctgga	attcgccctt	tcgagcggcc	gcccgggcag	gtacatgcac	acacacacac	120
acacacacac	acgtgtctac	tgggtcctt	ttggattttt	tagttcaatc	agaaatcacc	180
aaacagatca	ataaagaggc	aatgttaaat	gaccgggaaa	ttggtaatgt	gacatcacia	240
cactgccttt	aagggtgcat	atctaaatcc	aggtagcact	gctgctagca	gaatctgttg	300
tttttaggaga	caagggtggg	ctgggtatgc	tggctcgtgc	ctataattcc	agcactttga	360
gagggcaagg	caggagaacc	acattaggct	aggagttnan	gaccagcctg	ggcaacatag	420
tgagatccca	tctctacaaa	aataaaaaaa	ttagctttcc	agctgct		467

<210> 125

<211> 833

<212> DNA

<213> Homo Sapien

<220>

<221> misc\_feature

<222> (1)...(833)

<223> n = A,T,C or G

<400> 125

gnnnnnnnnn	ngnnntnnnn	ntttaataga	tgagcgtaag	gngcctgtaa	agcatgctcg	60
agcggccgcc	atgtgatgga	tatctgcaga	attcgccctt	agcgtggtag	cggccgaggt	120
acctgatata	gtttaacttt	cctctttatc	tttcttagag	atacttcaca	tgtgggacag	180
attatatatt	ggaaagatgt	ccacaacaat	attgcccata	ccacattgct	catcttataa	240
tgtgatctca	agactcctcc	cactgagtgg	gtgagaaggg	acttatacca	ctttcatttg	300
aatctaggca	gatctgtgtg	acagccttga	ccaatagagt	atgggttaaag	tgatgcccc	360
aggcatgggt	gccatacctt	ggaatcctgg	tttttcggg	aggcccaggt	gggggtagag	420
gtgaggggga	tgattgtttg	aacacacgag	tttgagacta	ccctgagcaa	cacaatgaga	480
ccctattttt	ttttaatgat	ttctgaagca	gaatcacaaa	tagccgtgag	tttttttctt	540
gcgcttttag	gatacttact	tttaaaaccc	agtcaccata	ttgttaggaa	gcccacacag	600
cacacataga	gagacatacg	gagaagccaa	ccatagaggt	tcctgttgac	agctcantcg	660
aggtcttaac	caacagtcac	acttagctgc	cagccatatg	agtgaagggc	ttncagatga	720
ttctaacgcc	cagcagttgg	gtccccccag	cctgtaagcc	ttcccagctg	aggcctnaca	780
atgatggagc	anagaaaagt	gtccctgtcc	aaattctgac	ccatgataaa	atg	833

<210> 126

<211> 788

<212> DNA

<213> Homo Sapien

<220>

<221> misc\_feature

<222> (1)...(788)

<223> n = A,T,C or G

<400> 126

nnnnnnntnn	nnacanttga	ctgataccca	acttggtacc	gactcggatc	cactagtaac	60
ggccgccagt	gtgctggaat	tcgcccttag	cgtggtcgcg	gccgaggtac	gcgggggtag	120
agagagaagc	gaggtttctg	ttctgaggga	caggctcgag	atcggttgaa	gagagcgggc	180
ccaggctctg	tgaggaggca	agggaggtga	gaaccttgct	ctcagagggt	gactcaagtc	240
aacacaggga	accctctttt	tctacagaca	cagtgggtcg	caggatctga	caagagtcca	300
ggttctcagg	ggacagggag	agcaagaggt	caagagctgt	gggacaccac	agagcagcac	360
tgaaggagaa	gacctgcctg	tgggtcccca	tcgcccaagt	cctgcccaca	ctcccacctg	420
ctaccctgat	cagagtcac	atgcctcgag	ctccaaagcg	tcagcgctgc	atgcctgaag	480
aagatcttca	atcccaaagt	gagacacagg	gcctcgaggg	tgacacaggct	cccctggctg	540
tggaggagga	tgcttcatca	tccactttca	ccagctcctc	ttttccatcc	tcttttcctt	600
ctccttctnt	ttctnctnct	nctnctgcat	ctntaatacc	aagcacccca	naggagggtt	660
ctgctgatga	tgagacaccc	aaatncttcc	anagtgtctna	anatagcctg	ntncttcccc	720
cttnggnctn	gctttccctt	ncnttanatt	naatnctgat	taagggggtc	cancanncca	780
aaaggaat						788

<210> 127

<211> 766

<212> DNA

<213> Homo Sapien

<220>

<221> misc\_feature

<222> (1)...(766)

<223> n = A,T,C or G

<400> 127

gggcctctna	agcatgctcg	acggccgcca	tgtgatggat	atctgcagaa	ttcgcccttt	60
cgagcggccg	cccgggcagg	tactccaggt	agttttcctg	cacccaatct	tgggtgagca	120



gcttcctggg	ctccccataa	atgaggtgct	ccatcccatc	atacagcccc	atcatattca	180
gtgcttccca	gatgacctcc	tcaggggtgc	agtagccctc	tatgaagatt	atgcttagga	240
taagtatgag	aatgccagtc	ttgggcatgc	tctggacatc	actcagcatc	ccatcatagg	300
tgaggccag	ggaggtgaca	aggacaaagg	agtggccagt	gggatccact	tcctttacat	360
caatgccaaa	gaccagcagc	atgcactcgg	aggcttcact	aaacaacaaa	gggaagtggg	420
cttcataatt	ttttatgaca	ctctccagta	tttctgcctt	tgtgatcggc	tccttcattt	480
gataactgaa	gagcagaaac	tgacccaaat	cagtcacctt	ttcatctatc	tcacttctgg	540
gtaaagactc	actgtctggc	aggacctgta	gggtgcttgg	actctcctcc	ttttggctgc	600
tggagccctc	atcagattga	tctaattgaa	gggaagcaac	gaccganggg	gaggagcagg	660
ctatctgagc	actctgggga	ggatttgggt	tctcatcatc	agcagaaacc	tnctctgggg	720
tgcttgggta	ttagangatg	gcaggaagaa	gaangangaag	aggaag		766

<210> 128  
<211> 779  
<212> DNA  
<213> Homo Sapien

<220>  
<221> misc\_feature  
<222> (1)...(779)  
<223> n = A,T,C or G

gnnnnnntnnn	nacactantt	tnngaccn	canctggtag	cgactcggac	cactagtaac	60
ggccgcccagt	gtgctggaat	tcgccctttc	gagcggcccg	cccgggcagg	tactcctcat	120
cctgcggtttg	gtctccaggt	gtgccttttc	tgccgtgttc	ctaataattt	gattcctgtc	180
ttgaaaaaag	cacctgctgc	acagtaagcc	cagggatgtg	gcagctgcag	cgggcttggc	240
tttgtgagga	accgggtgtg	tccacgttgg	gggaacatca	tacttgatac	acacgttttt	300
atttgcacaa	agaaaatgct	atttttggag	ccagaatttt	catgtctgat	ttatgggtgat	360
tttcttaaga	accagaactg	ctggcagaaa	gggggcaccc	acacgcttag	atagccgatg	420
tcttattaga	gggcagtttg	tggttcctga	tttggaaatt	aatattctcc	aaacattcca	480
gtccaatgaa	agttttatcc	gctttcccat	gtaaaaattc	ttcccatgag	agtgacttga	540
tcctcacaat	ccggttgaa	tcgtgtgtga	gtcctacagt	attaggttca	gcattgccgt	600
ctncaagtgc	tctttgtagg	gaaacagttt	ctggctcatga	caagcttcca	cttccatctg	660
atcctggcct	ggcctggaaa	cagagcacat	gtgtttgagg	atggcngtgt	ttggggacag	720
gacatgancg	tattgtgtgg	ggctgctagg	acangcgtgg	tgtggtgggg	gantgtccn	779

<210> 129  
<211> 774  
<212> DNA  
<213> Homo Sapien

<220>  
<221> misc\_feature  
<222> (1)...(774)  
<223> n = A,T,C or G

ttnnnnantgg	gcccntngag	catgctcgac	ggccgccatg	tgatggatat	ctgcagaatt	60
cgcccttagc	gtggtcgcgg	ccgaggtacc	tgggtggggac	tgggaaactg	tgaaacaagt	120
agactgactt	ggacactccc	ccaccacacc	acgcctgtcc	tagcagcccc	acacaatacg	180
ctcatgtect	gtccccaaac	accgccatcc	tcaaacacat	gtgctctgtt	tccaggccag	240
gccaggatca	gatgggaagt	ggaagcttgt	catgaccaga	aactgtttcc	ctacaaagag	300
cacttggaga	ccgcaatgct	gaaccttaata	ctgtaggact	cacacacgac	ttcaacggga	360
ttgtgaggat	caagtctactc	tcattgggaag	aattttttaca	tgggaaagcg	gataaaactt	420
tcattggact	ggaatgtttg	gagaatatta	atttccaaat	caggaaccac	aaactgccct	480
ctaataagac	atcggctatc	taagcgtgtg	gggtccccct	ttctgccagc	agttctgggt	540
cttaagaaaa	tcaccataaa	tcagacatga	aaattcttggc	tccaaaaata	gcattttctt	600
tgtgcaaaaa	aaaacgtgtg	tatcaagtat	gatgttcccc	caacgtggac	acaccccggt	660
tcctnacaaa	gccaagcccc	ctgcagctgc	cacattctctg	ggcttactgt	gcacangtgc	720
tttttttaag	acaggatcaa	atnttaggac	ccngnanaan	gcaacacctg	gaga	774

<210> 130  
<211> 803  
<212> DNA  
<213> Homo Sapien

<220>  
<221> misc\_feature  
<222> (1)...(803)  
<223> n = A,T,C or G

<400> 130  
ggnnnnntnn anacgnatcn gacctganta cgccaacttg gtaccgagct cggatccact 60  
agtaacggcc cgccagtgtg ctggaattcg cccttagcgt ggtcgcggcc cgaggtacct 120  
tggaagtatt gtcattaata taggctggtt cgtcaaataa agcaaacct tgcaatatca 180  
gctagattta cactccggga cgttgcccaa aggttaggaag aaagcagagg gaaatatttc 240  
agtcacatt tccaaagtca ttatcaaat ctgtgaggaa gtttaattct ccaaagagtc 300  
aatgtcagac atcaggcctc tgttgccctgc ttctctcgag gcactagatt aggagtcttc 360  
aataagagac ttaacatgag gtatatggaa gatgaggcac cgagataagt tcatcattag 420  
gtgtgagcac tgctcacctc tgctggcaag ttctccttaa gggcctgaag cacaggtgtc 480  
caaagaaaag cgttaagtcc atcttaatag aatctatgtg gtatatgatg tggtcagccc 540  
ccggtctgtg atcagcaaga acctacagca cagattatgc cctgcccact tcaatgaata 600  
cctactctcc tncattctcc atcacttttt ttgctatcaa gactccggac cttgcccattg 660  
gagaagttta gagaggaaact cttgtggaga gctgggttat tttctgccct gtgcgacgag 720  
tttcagcttg gccaaagaaa ggagtcgaagg ttattaaaaa gcatacaaat ggtagatctt 780  
ccaggcttgg nttttttgt ttt 803

<210> 131  
<211> 818  
<212> DNA  
<213> Homo Sapien

<220>  
<221> misc\_feature  
<222> (1)...(818)  
<223> n = A,T,C or G

<400> 131  
antgggcctc tnnagcatgc tcgacggccg ccatgtgatg gatattctgca gaattcgccc 60  
ttngcccgtc ttccagncgg gaaacctgtc ntgcagntg cattaatgaa tngcccaacg 120  
cgcggngaga ggccgnttgc gtattggcg cttctccgct tctcgcctca ctgactcgct 180  
gcgctcgccc gttcngctgc ggcgagcgg atcagctcac tcaaaggcgg taatacngtt 240  
atccacagat caggggatan cggcaggaaa gaacatgtga ncaaaaggcc agcaaaaggc 300  
caggaaccga aaaaaggccg ctttggttggc gtnnaccat aggctcnncc cccttgacna 360  
gcttcacaaa aatctacgct cagntcccag gtgcnaaatc ccganaggac tntaangatt 420  
cnnngnnttt cccctgaan nctnctant gcgctctcct gtnccaacct tgccgtttac 480  
cggatacctg nccgcctnna tnccttcgng aagcntggct tttnaatngg ctcaactttt 540  
gggnatctaa aancggnnta ggcngnncgt tnnaaantng nntttttgcn caaacccctt 600  
gtttaaactn acccatgngc attatcccgg aaacttttgg tnttngaate caaccnggna 660  
aanacacnan ttaatnngcc nttggcntga aaccacttg ggtnaaccat ggatttttggc 720  
ncnacnagg gtnnttttnn nggcnggtnc ntacccggag ttctttnaaa acnggggtggg 780  
cnccttanacc tatcnggnnt tcccctttan aaaaaaat 818

<210> 132  
<211> 777  
<212> DNA  
<213> Homo Sapien

<220>  
<221> misc\_feature  
<222> (1)...(777)  
<223> n = A,T,C or G

&lt;400&gt; 132

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acnntatgac ntgantaccc aacttggtac cgactcggac cactagtaac ggccgccagt    60
gtgctggaat tcgcccttcg gcccgcccg gagggtacct ggaaaataac ttctttcttt    120
tcctctagat ttctgaagaa gcaaataaat caagaataga aacctatata taggaggttg    180
ggcctcctgc aaagaatgaa gcactttttg ttaataacag gagaggctac ttggctgcac    240
taatatgtgc tttttggaat cttatagagt gtcaccaagt tgaactttgg aatggcttga    300
atcatccctg gagcatctgt gccgggcagt caggagttag tgcaccgcct cccaccacgc    360
cccattgggc ctcacaccct cttcattcct ttcccatga ggcaggcaaa cagggtcatg    420
accattttgg ggttcacttc aaccaggtct tctggcaggg catacactct tgctccaatt    480
tttcggggcca tagagatggc atattttgca ttgttgagtt tctcatcatc attcagattt    540
tctgtcttca gaaggtcata gttaatggaa cctgggttga tggcatcgat gangtccaga    600
acaggcagac ttgtacctcg gccgcgacca cgctaagggc gaattctgca gatatncatc    660
acactggcgg gccgntcgag catgcatcta gangggccaa ttccgcctat agtgagtcgt    720
attacaattc actgggccgt cgttttacaa cgtcgtgact gggaaaacc tgcgttn      777

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&lt;210&gt; 133

&lt;211&gt; 775

&lt;212&gt; DNA

&lt;213&gt; Homo Sapien

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(775)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 133

```

ntgggcctct nnagcatgct cgacggccgc catgtgatgg atatctgcag aattcgccct    60
tagcgtggtc gccgcccagg tacaagtctg cctgttctgg acctcatcga tgccatccaa    120
ccaggttcca ttaactatga ccttctgaag acagaaaatc tgaatgatga tgagaaactc    180
aacaatgcaa aatatgccat ctctatggcc cgaaaaattg gagcaagagt gtatgccctg    240
ccagaagacc tgggtgaagt gaaccccaaa atgggtcatga ccgtgtttgc ctgcctcatg    300
gggaaaggaa tgaagagggt gtgaggccca atggggctgg gtgggaggcg gtgcactcac    360
tcctgactgc ccggcacaga tgctccaggg atgattcaag ccattccaaa gttcaacttg    420
gtgacactct ataagattcc aaaaagcaca tattagtga gccaaagtagc ctctcctgta    480
tttaacaaaa agtgcttcat tctttgcagg aggcccaacc tncatatat aggtttctat    540
tcttgattta tttgcttctt cgaaaatcta gaggaagaaga aagaagttat ttccaggta    600
cctgccccgg cggccgaang gcgaattcca gcacactggc ggccgttact agtggatccg    660
agctcggtcg caagcttggc gtaatcatgg tcatagctgt ttctgtgtg aaattgntat    720
ccggtcacaa ttcccacaca tacgaaccgc gaagcataaa gtgtaaagcc tgggg      775

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&lt;210&gt; 134

&lt;211&gt; 772

&lt;212&gt; DNA

&lt;213&gt; Homo Sapien

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(772)

&lt;223&gt; n = 'A,T,C or G

&lt;400&gt; 134

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acnnttgacc tgataccag ctggctccgac tcggacccta gtaacggccg ccatgtgctg    60
gaattcgccc ttgagcggcc gccggggcag gtcataaagt ctttaaatg ggtcgtgttt    120
ttagcaggta agactaattt atctcttctc cagtgaattg atgctgggtg gattcgattt    180
cacatcacaa cttatattga tagggatttc ctcccaaga gtaataaatt gtttggtttg    240
atataaactt gggggcatat tcaatatcaa ggtacttttt tttttttttt aagttttagt    300
tcagaataac attaatattg agagattgag gtaagaacc ttaactaatg ctaaggagtt    360
tattttgatt aacatagggt attctgacca ccacctcttc ctctctaat ctccttagaa    420
tctgacagtc tcaaagctgt cacacaaatt agactaattt tgacactttg aaatgaaaac    480
ttcaaggaa gtagtagccac ggacagttat gtttataatc agtaggtggc actcttctc    540
caggtagccc cccattttca catgatgtgt ttgaaggtta aatgccccaa aagtgtctgag    600
tcagctataa aactaagtcc ctgaattcca tggccctttt aaatatgtaa tcattcaaga    660

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ttgaaaaaaa aaattaagca ttttttgntt gnttgcttgg ttggttttga gacngagttt 720  
cactcttgnt ggccaggctg gaggcgcaatg gcgccatctn actcactgna ag 772

<210> 135  
<211> 784  
<212> DNA  
<213> Homo Sapien

<220>  
<221> misc\_feature  
<222> (1)... (784)  
<223> n = A,T,C or G

<400> 135  
ntgggcctct nnagcatgct cgacggccgc catgtgatgg atatctgcag aattcgccct 60  
tagcgtggctc gcggcccagag gtacttcttt tgaataattc agtattttta aaatgcaagc 120  
caggcacagt ggctcacgcc tgtaatccag cactttggaa ggccgagggtg gggggatcac 180  
gaggctcagga gttcaagacc agcctggcca acatggtgaa acctcatctc tactaaaaat 240  
acaaaaacta gctgggcatg gtggcgggca cctgttaacc cagctacttg gagggctgaa 300  
ggagaattgc ttgaatccgg gaggcagagg ttgcagttag ctgagatggc gccattgcac 360  
tccagcctgg ccaacaagag tgaaactccg tctcaaaaac aaacaagcaa acaaacaaaa 420  
aatgcttaat tttttttttc aatcttgaat gattacatat ttaaaagggc catggaattc 480  
agggacttag ttttatagct gactcagcac ttttggtggc atttaacctt caaacacatc 540  
atgtgaaaat ggggggctac ctgaggaaaag agtgccacct actgattata aacataactg 600  
tccgtggcta cttcttcctt gaagtgtttca tttcaaatg tcaaaattag tctaatttgt 660  
gtgacagctt tgagactgtc agattctaag gagattaaag gaanggaaga ggtggtggct 720  
agaataacct atgttaatca aaaataaact tccttagcat taagttaang gtctttacct 780  
caan 784

<210> 136  
<211> 768  
<212> DNA  
<213> Homo Sapien

<220>  
<221> misc\_feature  
<222> (1)... (768)  
<223> n = A,T,C or G

<400> 136  
acnttgantg naccacttg tccgactcgg atccctagta acggcgagct gtgctggaat 60  
tcgccctttg agcgcccgcc gggcaggtac tttttttttt ctttttttac atctgatttt 120  
aatgcttcgt taacttcaaa agggaaactg gtagagtcca gaaggtagagc tgttgttttt 180  
ctaaacctct tcccaggaag gagacattga cacttgaatt ttgcccacct ttttcctcat 240  
tagaaggaaa gtagaaagcc ttactgtagg atttttaaaa aaaaatccat ctcaccccat 300  
attggtctta aataagtata gactaattaa cctaagctac ctttaacaac gtagaattta 360  
gatgggttca tatatgtgag aaaaacctga atataggaca ggggtcctac tttttccccc 420  
acctctgccg cccaggctag agtatagtgg tgtgatcttg gccactgca acctctgctt 480  
cctaggttca agtgattctc ctgcctcagc ctcccaagta gctgggattg taagagtatg 540  
ccaccacgcc cagctacttt ttgtattttt agtagagaca ggggtttcatc atgttgccca 600  
ggatggtctc ttaactcctg ccctcaagtg atccaccaga gaggagatcc tcggccttcc 660  
caagtgtcgg gattataggg atgagccacc gtaccacgcc tactttctaa ttaattaaaa 720  
aaaaannnnn nnnnaaaaaa acttnccaaa tgactgataa aaaactgc 768

<210> 137  
<211> 777  
<212> DNA  
<213> Homo Sapien

<220>  
<221> misc\_feature  
<222> (1)... (777)

<223> n = A,T,C or G

<400> 137

ttgggacct	ngagcatgct	cgacggccgc	catgtgatgg	atatctgcag	aattcgccct	60
tagcgtggc	gcggccgagg	taccatgctg	acttcttggg	atcttttaag	gcctaatttt	120
cccttccttg	agattactgt	agtgtgttcc	agctaatttc	tatttggaag	cgagttggaa	180
cagctgaaaa	ctaggtatta	ttgaaggcaa	agtagectca	cgtagctttt	ttatcagctc	240
atttggaag	tttttttttt	tttttttttt	ttttttaatt	aattagaaag	taggctgggt	300
acgggtggctc	atgcctataa	tcccagcact	tggggaggcc	gaggatctcc	tctctgggtg	360
atcacttgag	ggcaggagtt	aagagacat	cctggccaac	atgatgaaac	cctgtctcta	420
ctaaaaatac	aaaaagtagc	tgggcgtggg	ggcatactct	tacaatccca	gctacttggg	480
aggctgaggg	aggagaatca	cttgaaccta	ggaagcagag	gttgcaagtgg	gccaagatca	540
caccactata	ctctagcctg	ggcggcagag	gtggggaaaa	aagtaggacc	cctgtcctat	600
attcaggttt	ttctcacata	tatgaaccca	tctaaattct	acgttggtta	aggtagctta	660
ngttaattag	tctatactta	tttaagacca	atatgggggtg	agatggattt	ttttttaaaa	720
atcctacant	aaggctttct	actttccttc	taatgaggaa	aaaagtggca	aaaattt	777

<210> 138

<211> 950

<212> DNA

<213> Homo Sapien

<220>

<221> misc\_feature

<222> (1)...(950)

<223> n = A,T,C or G

<400> 138

nnnnnnnnnn	nnnnnnnnnn	ntnnnnnnnn	nnnnnaaanc	cnnnnnttna	nnngnnaaac	60
cccattggna	aanntaacn	neccccaaaa	gcccttngg	ggtttaaccc	ccgaaagcct	120
tccgggggna	atccccaa	tttaagttaa	acngggggcc	cgggcccaag	ttggttggcc	180
tttgggggaa	aatttcgcc	ccctttccga	agccggggcc	ggccccgggg	gccaagggtta	240
ccatgggaat	gggtaccttt	tggcaagaac	tggtcaaac	ctggaaattt	tggtattttt	300
gctttggaca	ttggccctaa	attaattaag	tttcaagggtg	gtcaggcttt	acccactttt	360
tggtctggca	acatgcagaa	gagacagtgc	cctttttagt	gtatcatatc	aggaatcatc	420
tcacattggg	ttgtgccatt	actggtgcag	tgactttcag	ccacttgggt	aagggtggagt	480
tggccatatg	tctccactgc	aaaattgctg	attttccttt	tgttaattaat	aagtgtgtgt	540
gaagattctt	tgagatgagg	tatatatctc	actcttcac	aaactataag	tttttttaag	600
taaaagaaaa	tttattatga	aactaaagga	ataaaagaat	gaccactcca	taggcagaga	660
aacgtcactt	taagggtttg	acgtcaattg	atttttgtcc	aaatcaataa	ttactgcaat	720
gattgaaaaa	tgattattac	taagtttgtt	ttcattgtct	caaggctctgc	tgaactctgg	780
atccaggctg	tgtaaacagg	gtagtgtggg	gcctcctgta	cctcggccgc	gaccacgcta	840
agggcggaatt	ctgcagatat	ccatcacact	ggcggccggt	cgagcatgca	tctagagggc	900
ccaattcgcc	tatagttagt	cgtattacaa	ttcactggcc	cgcgttttag		950

<210> 139

<211> 779

<212> DNA

<213> Homo Sapien

<220>

<221> misc\_feature

<222> (1)...(779)

<223> n = A,T,C or G

<400> 139

ttgggccc	agagctgctc	gagcggccgc	catgtgatgg	atatctgcag	aattcgccct	60
tagcgtggc	gcggccgagg	tacaggaggc	accacactac	cctgttgaca	cagcctggat	120
ccagagttca	gcagaccttg	agacaatgaa	aacaaaactta	gtaataatca	tttttcaatc	180
attgcagtaa	ttattgat	ggacaaaaat	caattgacgt	caaaacctta	aagtgcagtt	240
tctctgccta	tggagtggc	attcttttat	tccttttagt	tcataataaa	ttttctttta	300
cttaaaaaaa	cttatagttt	gatgaagagt	gagatatata	cctcatctca	aagaatcttc	360

acacacactt	attaattaca	aaaggaaaat	cagcaatttt	gcagtggaga	catatggcca	420
actccacctt	acccaagtgg	ctgaaagtca	ctgcaccagt	aatggcacaa	accaatgtga	480
gatgattcct	gatatgatac	actaaaaagg	gcactgtctc	ttctgcatgt	tgcagacaaa	540
aagtgggtaa	gctgacactg	aaactaataa	ttaggcaatg	tcaagcaa	acaaattcag	600
gttgacagtc	tgcaaagtaa	catccatgta	cctgccccgg	cngnccgctc	gaagggcgaa	660
ttccagcaca	ctggcggccg	ttactagtgg	atccgagctc	ggtaccaagc	ttggcgta	720
catgggcata	gctggttcct	gtgtgaaatt	ggtatncgct	cacaattnc	acaacatag	779

&lt;210&gt; 140

&lt;211&gt; 779

&lt;212&gt; DNA

&lt;213&gt; Homo Sapien

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(779)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 140

gcccntagag	catgctcgac	ggccgccagt	gtgatggata	tctgcagaat	tcgcccttag	60
cgtggctcgg	gccgaggtac	caggtgggct	gacgcacatc	ccctaaacat	tctggatctc	120
ttactcatcg	tgaaaggcag	acgctctaag	tctaaagtct	agggtaggag	tttccattct	180
ttggaaaacc	aaagatgggt	actcttctta	atgaaactga	gaagaaggta	tctacagaaa	240
acactgaatt	taaacaaatt	atgacottgt	ttggtgaagc	catcaaggac	ccaagatata	300
tcaaagaaca	acatctctgt	attggcctac	aggttcagag	tgttttgagg	tctgtttaag	360
cactaatagg	attttaggcc	agcatccagt	cagaagagat	agttcacaga	ctcagagttg	420
gaaacagatt	aaaaaaaaaa	agatgtcaac	atagaaaatg	atgatagagt	ttagttaaaa	480
aaattcacac	ataaaattac	agttaaaaaa	attcacacac	aaaatagagt	gtttgcatag	540
caagacatta	ttgcccttca	gcctggcaga	aaaacataaa	ctcaggtgta	tattttataa	600
taaacattgt	attgaatgct	aagaatgata	cactgttgaa	catctcctga	atgggttgcc	660
ttcttgtaaa	tcataccaat	tgtttagaca	attgaaattc	caagctcttt	ctcttctccc	720
atataaaaac	caacagaaac	anggaggctg	ttagtagcaa	gctcctcatg	ggaaaanggt	779

&lt;210&gt; 141

&lt;211&gt; 986

&lt;212&gt; DNA

&lt;213&gt; Homo Sapien

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(986)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 141

aanccnnnnn	ntttatttgg	gnaaacccaa	ttgggnaaaa	ttnaaccgcn	ccccccnaaa	60
ngcccttttn	gggggttnaa	ccccccggaa	aaccctttcc	gggggggaaat	ttcccaacct	120
ttaaagnttt	aaaaacccgg	gggccccggg	cccccaaagt	ttgggttggc	cnttggggga	180
aaaatttttt	ccgggcccc	cnttttaaa	cccgggttgg	gtttccggcc	ngggggcccc	240
gggaaagggt	tnaccctttt	ttttttaact	tttttnnntt	tccttttttn	nttccttttt	300
tttctttttt	tttttcttgg	gtntnnnttt	ttttttcaat	tttttggttt	ttgggtttttg	360
gttatggttt	ttttagaaca	gggggtccac	tctgtcaccc	aggctggagt	gcagtgggtgc	420
aatcacagggt	cactgaaacc	tcccacctag	ctgggactag	agggtgcaggc	caccacacca	480
gctaattttat	gtaatttttg	tagagacgag	tttcaccacg	ttacctaggc	ttgtcttgaa	540
cacctggggt	caagcaatct	tccagcccca	gcctcccaaa	gtgctgggat	tacagggtata	600
aaccacaatg	cccccggttt	tactctttac	tgcatecttc	ccatcagtat	taattcctca	660
gaaatttagt	accctgtgct	ttcattcagt	atcagtaacc	ctgcaatgat	ttttacaaat	720
atctttttct	agtgggtttt	ttacttagag	gaaagaactt	tgtaatagct	cttaatgttt	780
atatataaga	gaagacagaa	tggaatatgt	tttttgaa	caaataatgc	atgatgtaaa	840
gaaaaaaactt	taaaacttaaa	tgagtanggt	tgtcctgaat	tacactggta	actctctact	900
tctttattaa	agaagttata	gtaagatgcc	tttgntacc	tgatttcagt	gtacctgccc	960
gggccggccg	ntcaaaagg	cgaant				986

<210> 142  
<211> 780  
<212> DNA  
<213> Homo Sapien

<220>  
<221> misc\_feature  
<222> (1)...(780)  
<223> n = A,T,C or G

<400> 142  
gggcccgtan agcatgctcg agcggccgcc atgtgatgga tatctgcaga attcgccctt 60  
tcgagcggcc gcccgggcag gtacactgaa atcaggtaac aaaggcatct tactataact 120  
tctttaataa agaagtagag agttaccagt gtaattcagg acaacctact catttaagtt 180  
taaagttttt tctttacatc atgcaatatt tgacttcaaa aaacattttc cattctgtct 240  
tctcttatat ataaacatta agagctatta caaagttctt tcctctaagt aaaaaaccca 300  
ctagaaaaag atatttgtaa aaatcattgc agggttactg atactgaatg aagcacaggg 360  
gtactaaatt tctgaggaat taatactgat ggaaggatg cagtaaagag taaaaacggg 420  
ggcattgttg tttataacctg taatcccagc actttgggag gctggggctg gaagattgct 480  
tgagcccagg tgttcaagac aagcctaggt aacgtgggga aactcgtctc tacaaaaatt 540  
cataaattag ctgggtgtgt ggctgcacc tctagtccca gctaggtggg aggtttcagt 600  
gacctgtgat tgcaccactg cactccagcc tgggtgacag agtgggaccc tgtctaaaaa 660  
aaacataaca naacanaacn naatgaaaaa aaaaacaaga aaaaagaata gaaaaagaaa 720  
aaagtnaaaa gtncctcggn cgcgaccagc ctaagggcga attccagcac actgcggccn 780

<210> 143  
<211> 794  
<212> DNA  
<213> Homo Sapien

<220>  
<221> misc\_feature  
<222> (1)...(794)  
<223> n = A,T,C or G

<400> 143  
nnnnnnnnnn nnnacnnttg actgataccc aacttggtac cgactcggac cactagtaac 60  
ggccgccagt gtgctggaat tcgcccttcc gagcggccgc ccgggcagggt acagaaaagaa 120  
gagccaggat attctttgtt ttccctaagcg tagctgtgag caacattatc tctcctactg 180  
gcttctttga ggtatgagag tcatcattac atctgtgtgc tttgtcaagt tatatgtcac 240  
aatccacct gtgggtagag aacaagcaca agagtcacat caactgtgtg ctgggccagg 300  
gttatgtcac aatcttccct gagagcatgc accaggcaga agagtcacat cacagggttc 360  
tcaaccagag atgttacaat cctctcctga aagcaggaca caggaaaaag agtaagatca 420  
cctgcatgct gggctcagat atatgtcaca agactcactg tgggcaaagt ccagaaggac 480  
agacagaaca gctggttgct tgacccagca atatgtcaca atcttctcta tgggcagaat 540  
gcaggcagaa gtagagggtc tcatcttcca ggtgatggat taaaaaata catcccaagg 600  
ctctctgtgg gaaagggtc angcagaac tttccaacc ctangtgtt gtttcagtga 660  
tatgtcaca ttaacaaaa tatgcagggt tcaagcaagt gagtnaagtc atatcaccta 720  
nggtgcttgg tccanaaatc tgncaaatc ttttttttt ttttggcatg cccagcngaa 780  
ttgaaaagtc ncan 794

<210> 144  
<211> 782  
<212> DNA  
<213> Homo Sapien

<220>  
<221> misc\_feature  
<222> (1)...(782)  
<223> n = A,T,C or G

<400> 144

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cnannngggcc cntagagcat gctcgacggc cgccagtggt atggatatct gcagaattcg      60
cccttagcgt ggtcgcgcc gaggtacaat cttggctcac tgcaacctcc acctcccggg      120
ttcaagcaat tctcctggct cagcctcctg agtgctggga ctacaggcat gcaccaccac      180
tcccacctaa ttttgatatt ttgatagaga cggggcttct ccatgttggt caggctgttc      240
tcaaactcct gacctcaggt gatttgactg tcttagcctc ccacagtgct gagcttatag      300
gcagggtgcca cgacacctgg ctggaatcat ttatttcaac atatctctgg gtccaacaac      360
atgggtgatgc aactttcctg catgggccct cccacagaaa tactctaata catcttttca      420
ttcattatct tgggtgatgtg acttttctat tctgcttggg cactgccaaa aaaaaaaaaa      480
aagattgtga cagatttctg gaccaagcac ctagggtgata tgactttact cacttgccctg      540
aaacctgcat attttgggta ttgtgacata tcaactgaagc aaacacctag gggttggaaa      600
gtttctgctt gagcccttcc acagagagcc ttgggatgta tttttttaat ccatcacctg      660
ggagatgaaa cctctacttt ttgcttgcct tctgcccata gagaagattg tgacatattg      720
ctgggtcaag caaccagct ggtctgctgt ccttntggac tttgccaca agtgagtttt      780
gn

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&lt;210&gt; 145

&lt;211&gt; 780

&lt;212&gt; DNA

&lt;213&gt; Homo Sapien

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(780)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 145

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annnttgacc tgataccag cttggtaccg agctcggatc cactagtaac ggccgcccagt      60
gtgctggaat tgcctcttcc gagcgccgcg ccgggcaggt acttttttta cttttttttt      120
cttttttttt ttggacatct gttttcactc ttaggctttt aaacaatagt tattgctttt      180
atccctctca gattctaata actgagagcg atggggctat attgaatctc tgtatgcaact      240
gagaactgag ctatgaagag gatcttatta aactgctggg ctgactttat ggattgacac      300
tgttcccttc ttttattgtg aaaaaaaaaa aaaaccctga aagtcttggg aacccctaa      360
agtcttttgg gaatcctcaa aaagcatggg aagttaagta tttagctaca taaatgttgt      420
aagatcatat cttatgtata gaagtaataa gaccatttgg aattactgga ctaattgaat      480
agttaagggt tctattcggg acaataaaat gtattttgaa agtgctgcta actattgatg      540
ctgacagtggt ttcactccta tgagtgaacc aaacatatta taaatatgtg gtaaaaggaa      600
tggagcctgt ggggttgagc agaatgttgg actttttttt tnnnnnnnnn ntttttngc      660
tttctattng atngataacg atttcnggat tncctttaa nncncngang gtttggaac      720
tttggaactg attctggttc ccngaaacag gttcactggg nncggggga cacttttaan      780

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&lt;210&gt; 146

&lt;211&gt; 778

&lt;212&gt; DNA

&lt;213&gt; Homo Sapien

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(778)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 146

```

ttgggcccct agagcatgct cgacggccgc catgtgatgg atatctgcag aattcgccct      60
tagcgtggtc gcggccgagg tacatggagg cctggactgt aaagagacta cggaaggggc      120
agcatgtgtg ttttgcttct cagattcatt gtcaactcac ttgcataaag tctcagttg      180
tttttaagta attgttttac tatggatata ttaaaccatac agaataaaaa agggaataaa      240
catacaattt ggcaaacccc ctactgagcc tttaaaaata ttagaagggt ggtattaaac      300
caggtaactt acggatttgg aaaaaaaaaa aaaaagaaag cattgaatat ggctggggcg      360
ttctctgggg atccttgggc agaccagtt tgccccgatt tctcactgta gttttcaaga      420
ataactgtag gaggcggtgg gagtgcagca tcttgagata agggagacga gccagaacag      480
cgcgggcact gttccagccc ccctagaaat gggttgatct tcagtgtctc agctcagtg      540
gtcatgttcc acccagcatg taaaagccta ggatcggagg cttccccagg gttcgtcagc      600
tgtggcacaa tagggcccggt tgcaataaag attctattcc tgtcagacag tttcgtgagt      660

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ttgtggggga acactcacc tagcttctgn tgnctcttca tgcctgtgtg ttcctaataca 720
acttttttgn gtaacttggg gttttgaaa tgtcaccagc acacaatgga acctgtcn 778

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<210> 147

<211> 784

<212> DNA

<213> Homo Sapien

<220>

<221> misc\_feature

<222> (1)...(784)

<223> n = A,T,C or G

<400> 147

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tgtgctggaa ttcgcccttt cgagcggccg cccgggcagg tacttttttt tttttttttt 120
tttttttttg ggattgaatc aacatgcttt aataggaaaa gatgtatggg ctatatatgn 180
atcaatctgg ngaancctcg ntctaataaa gggctctttt cttttctatg atacacacag 240
ncacgctgat aatatgcnaa tgaacatttt cctttatgnc tctncanata atggttattg 300
gctgaggnaa attaaattcc caccangnt tgctgncagt attttaacac ccacattagt 360
atatgcntnc agggtcataa cccctaaaaa tccatnatgc aaccttatta atctggcttg 420
ggantccngg ttaatgcttg gattttanttc ctgattacac tncntngaaa agtgagacat 480
ttgncattcc caactttggg aaaaccaact tatattcaac cntntnaatg aaggccatct 540
tgatggntcc aacactaatt tttatgatgc aaatttatac acngattttt gtaaagggca 600
aagtttttaa agcgtattta acttgatggg ttctatcagc attaatnaaa tggncatgaa 660
taggcattaa aaacagttgc cagtgatnat ctgcatgaaa ggaaaaagaa ccctgcaaat 720
ggctattgaa nttggaaata ttgntttga natgtaagaa aatntttaga aagctcncnc 780
tgng 784

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<210> 148

<211> 775

<212> DNA

<213> Homo Sapien

<220>

<221> misc\_feature

<222> (1)...(775)

<223> n = A,T,C or G

<400> 148

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gggcccctan agcatgctcg acggccgccca gtgtgatgga tatctgcaga attcgccctt 60
agcgtggctcg cggccgaggt acaaagcact gtttaaaacc agtccaagat acttaatcca 120
aactgtatca tgattcttca ttagaaatct agacaccact catggtgggt tcttacactt 180
taaaaagttg aggcattttc agtgtgagca ttctgaatat ctcttacata tcaaaaacaa 240
tacttccaac tcaatagcca tttgcagggt tctttttcct tcatgcagat tatcactggc 300
aactgttttt aatgactatt catgaccatt ttatttatgc tgatagaaaa catcaagtta 360
aatacgcttt taaaactttg tcctttacaa aaatcagtgt ataaatttgc atcataaaaa 420
ttagtggtga gaccatcaag atggccttca ttatatggt tgtatattag ttggttttcc 480
cagagttggg aatggcagat gtctcacttt tctatgtagt gtaatcagga aataaatcca 540
agcactaaac aggaatccca agacagatta ataaaggttg atgatggatt ttaggggggt 600
atgaccctgg acgcataac taatgtgggt gttaaaatac tgacagcaag ccctgggtggg 660
aattaattta cctcagacaa taaacattat ctggagagac ataaaggaaa atgttcattt 720
gcataattatc agcgtggctg ggtgtatcat agaaaaagaa aaagaacctt tttan 775

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<210> 149

<211> 783

<212> DNA

<213> Homo Sapien

<220>

<221> misc\_feature

<222> (1)...(783)

<223> n = A,T,C or G

<400> 149

acnntatgac	ctgatacgcc	aagcttggtg	ccgagctcgg	atccactagt	aacggccgcc	60
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aaaactacct	tctgcaggtc	agggagctaa	tgacatggca	ttggccaaac	gttcccgcag	180
tcgaactgct	acagaatgtg	acgttcgtat	gagcaagtct	aagtcagaca	atcagatcag	240
tgacagagct	gctttggagg	ccaaagtga	ggatcttctc	acgctggcaa	aaaccaaaga	300
cgtagaaatt	ttacatttga	gaaatgaact	gcgagacatg	cgtgcccagc	tgggcattaa	360
tgaggatcat	tctgaggggtg	atgaaaaatc	tgagaaggaa	actattatgg	ctcaccagcc	420
gactgatgtg	gagtcactt	tattgcagtt	gcaggaacag	aatactgcca	tccgtgaaga	480
actcaaccag	ctgaaaaatg	aaaacagaat	gttaaaggac	agggtgaatg	cattgggctt	540
ttccctagag	cagagggttag	acaattctga	aaaactgttt	ggctatcagt	ccctgagccc	600
agaaatcacc	cctggtaacc	agagcgatgg	aggaggaact	ctgacttctt	cagtgggaang	660
ctctgcccct	ggctcantgg	gaggatctct	tgagtcagga	tgaaaaataca	ctaattggacc	720
attagcacag	tacttcatgg	caatttagac	agtgagtga	atgaggtcta	ccagcccctt	780
ann						783

<210> 150

<211> 771

<212> DNA

<213> Homo Sapien

<220>

<221> misc\_feature

<222> (1)...(771)

<223> n = A,T,C or G

<400> 150

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cgagcgcccg	cccgggcagg	tactgtgttg	gttctcttcc	atctgggtga	tccgttcagt	120
caggcaagcc	acggacactt	cactggcatt	cccgtgtctc	cccttccggg	agcgctctat	180
gctggggatg	ccttccgact	ctgaggagga	tggtgcatcc	agcgcatcat	cgctcgatgt	240
gaggggctgg	tagacctcac	tgactcact	gtctaaattg	tccatggagt	tactgtgctg	300
atggtccatt	agtgtatttt	catcctgact	caagagatcc	tccactgagc	caggggcaga	360
gccttccact	gaagaagtca	gagttcctcc	tccatcgctc	tggttaccag	gggtgatttc	420
tgggctcagg	gactgatagc	caaacagttt	ttcagaattg	tctaacctct	gctctaggga	480
aaagcccaat	gcattcaacc	tgctctttaa	cattctgttt	tcatttttca	gctgggttgag	540
ttcttcaagg	atggcagtat	tctgttctcg	caactgcaat	aaagtggact	ccacatcaag	600
tcggctgggtg	agccataata	gtttccttct	cagatttttc	atcacctca	gaatgatcct	660
cattaatgcc	cagctgggca	cgcatgtctc	gcagttcatt	tctcaaatgt	aaaatttcta	720
ogtctttggt	ttttggcagc	gtgagaagat	ccttncttgg	nctcnaagcn	g	771

<210> 151

<211> 778

<212> DNA

<213> Homo Sapien

<220>

<221> misc\_feature

<222> (1)...(778)

<223> n = A,T,C or G

<400> 151

acnntatgac	ctgatacgcc	agcttggtac	cgactcggat	ccactagtaa	cggccgccag	60
tgtgctggaa	ttcgcccttt	gagcgccgcg	ccgggcagg	actttttttt	ttcttttttt	120
acatctgatt	ttaatgcttc	gttaacttca	aaaggaactg	gtagagttca	gaaggtaggc	180
tggtgttttt	ctaaacctct	tcccaggaag	gagacattga	cacttgaatt	tttgccacct	240
ttttcctcat	tagaaggaaa	gtagaaagcc	ttactgtagg	atttttataa	aaaaatccat	300
ctcaccccat	attgggtctta	aataagtata	gactaattaa	cctaagctac	ctttaacaac	360
gtagaattta	gatgggttca	tatatgtgag	aaaaacctga	atataggaca	ggggtcctac	420
ttttttcccc	acctctgcgc	cccaggctag	agtatagtgg	tgtgatcttg	gcccactgca	480

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acctctgctt cctaggttca agtgattctc ctgcctcagc ctcccaagta gctgggattg 540
taagagtatg ccaccacgcc cagctacttt ttgtattttt agtagagaca gggtttcatc 600
atgttggcca ggatggcttc ttaactcctg ccctcaaaagt gatccaccag agaggagatc 660
ctcggcctnc ccaagtgtcg ggattatagg catgagccac cgtacccagc ctactttcta 720
attaattaaa aaaaaannnn nnnnaaaaaa aacttnccaa atgagctgat aaaaacng 778

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&lt;210&gt; 152

&lt;211&gt; 772

&lt;212&gt; DNA

&lt;213&gt; Homo Sapien

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(772)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 152

```

gggcccntag agctgctcga cggccgccat gtgatggata tctgcagaat tcgcccttag 60
cgtggctcgc gccgaggtag catgctgact tcttggtatc ttttaaggcc taattttccc 120
ttccttgaga ttactgtagt gtgttccagc taatttctat ttggaaacga gttggaacag 180
ctgaaaacta ggtattattg aaggcaaaagt agcctcacgt cagtttttta tcagctcatt 240
tggaagtttt tttttttttt tttttttttt ttttaattaat tagaaagtag gctgggtacg 300
gtggctcatg cctataatcc cagcacttgg ggaggccgag gatctcctct ctgggtggatc 360
acttgagggc aggagtttaag agaccatcct ggccaacatg atgaaaccct gtctctacta 420
aaaaatacaa aagttagctgg gcgtgggtggc atactcttac aatcccagct acttgggagg 480
ctgagggcagg agaatcactt gaacctaggga agcagaggtt gcagtgggcc aagatcacac 540
cactatactc tagcctgggc ggacagaggtg gggaaaaaag taggaccctc gtcctatatt 600
cagggtttttc tcacatatat gaaccctatc aaattctacg ttgttaaagg tagcttaagt 660
taatttagtct atactttatt aagaccaata tggggtgaga tggatttttt tttaaaaaat 720
cctacagtaa ggntttctac tttccttcta atgaggaaaa angnggcaaa at 772

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&lt;210&gt; 153

&lt;211&gt; 780

&lt;212&gt; DNA

&lt;213&gt; Homo Sapien

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(780)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 153

```

acnntatgac ntgaatacgn ccaagcttgg taccgagctc ggatccacta gtaacggccg 60
ccagtgtgct ggaattcgcc cttagcgtgg tcggggccga ggtacttttt tttttttttt 120
tttttttttt tttagttaaa gaatgcttta ttaatacaaa tacacacaaa ctctgaagca 180
ctaagaaatt taaatatcta tgtcacagca aacagggtggc aattcaacat ccagggtcga 240
cagaatgctt gaaggagact gcaacagatt ggattcccat ggtggagagg gcatnttcac 300
aggtgaaggg gggcccagct gaaacagctt ttcaagctct ctctcctcgt caaggatcat 360
gagaggcact ccactcaagg ggaggtgcgc aatctggtgc tcttcaggca ggtcaaaact 420
ctcaaagtct agaggattga agggaaagaa tttttctatt tctggatagg catcatctga 480
ggcaggaaca gagctttttg ctttaacagt cttctcagtc atcttttttg cagaaaagct 540
tggtctgttt tgtttgaggg gtcccttggg ctttacagac ttttctgtag ctctgttgac 600
agttcccaaa gcctttctag tagctttagg taaggctggg ggggcacga acgttttgcc 660
aaaacgtggg gttgaaactt gagatctccc atctaangct ttgattgaan gtccagaccc 720
cagcttcagc ccctccttag caaccacacn ggtgcctggg tctncatttt ccttatnang 780

```

&lt;210&gt; 154

&lt;211&gt; 770

&lt;212&gt; DNA

&lt;213&gt; Homo Sapien

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(770)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 154

gncctgttnna	gctgctcgag	cgcccgccat	gtgatggata	tctgcagaat	tcgccctttc	60
gagcgccgc	ccgggcaggt	acgcggggac	cgccgcctca	gatgaatgcg	gctgttaaga	120
cctgcaataa	tccagaatgg	ctactctgat	ctatgttgat	aaggaaaatg	gagaaccagg	180
cacccgtgtg	gttgctaagg	atgggctgaa	gctggggctc	ggaccttcaa	tcaaagcctt	240
agatgggaga	tctcaagttt	caacaccacg	ttttggcaaa	acgttcgatg	ccccaccagc	300
cttacctaaa	gctactagaa	aggctttggg	aactgtcaac	agagctacag	aaaagtctgt	360
aaagaccaag	ggacccctca	aacaaaaaca	gccaagcttt	tctgccaaaa	agatgactga	420
gaagactggt	aaagcaaaaa	gctctgttcc	tgccctcagat	gatgcctatc	cagaaataga	480
aaaattcttt	cccttcaatc	ctctagactt	tgagagtgtt	gacctgcctg	aagagcacca	540
gattgcgcac	ctccccctga	gtggagtggc	tctcatgac	cttgacgagg	agagagagct	600
tgaaaagctg	tttcagctgg	gcccccttc	acctgtgaag	atgccctctt	caccatggga	660
atccaatctg	gtgcagcttc	ttcaagcatt	ctgtcgacce	tggatgttga	attgccacct	720
gtttgtgtg	acatagatat	ttaaatttct	tagtgcttca	gagtttgngg		770

&lt;210&gt; 155

&lt;211&gt; 767

&lt;212&gt; DNA

&lt;213&gt; Homo Sapien

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(767)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 155

acattatgac	tgatacgcca	gcttgggtacc	gactcggatc	cactagtaac	ggccgcccagt	60
gtgctggaat	tcgcccttag	cgtggctcgc	gccgaggtac	gcggggccgc	tggataactg	120
ccctgggaca	cagcagcggg	aagccgcctg	cagactgaac	ctcactgacc	caggtggaaa	180
tcgttaggtc	atttactgct	aagcagccag	atgaactctc	cctgcaggtg	gctgacgtcg	240
tcctcatcta	tcaacgtgtc	agcgatggct	ggatagaggg	ggaacgacta	cgagatggag	300
aaagaggctg	gtttcctatg	gaatgtgcc	aggagataac	atgtcaagct	acaattgata	360
agaatgtgga	gagaatggga	cgcttgctag	gactggagac	caacgtgtag	tctctcagat	420
ggctctttgt	tactgcaaga	tttgacgac	acttaccggg	ctgggttgggt	ctgggctagt	480
tttattgnta	attttgtcac	agcctattta	attaaaagaa	cgaaaacact	tgcccttaag	540
cttgccaggt	tgttctgtc	tctcatgaga	agagcttgga	tacagtgagt	ttgcacagct	600
cagtttttca	ctaaccacac	acttgacac	ctnctgaggt	acctgcccgg	gcggccgcctc	660
gaaanggcga	attctgcaga	tatccatcac	acttggcggg	cgctcgaaca	tgcatctaga	720
nggcccaatt	cgncctatag	tgagtcgtat	tacaattcac	tggnccgc		767

&lt;210&gt; 156

&lt;211&gt; 827

&lt;212&gt; DNA

&lt;213&gt; Homo Sapien

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(827)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 156

attgggcccc	tagatgcacg	ctcgacggcc	gccagtgtga	tggatatctg	cagaattcgc	60
ccttttcgagc	ggccgcccgg	gcaggtacct	caggaggtct	gcaagtgtgt	ggtaggtaa	120
aaactgagct	gtgcaaac	actgtatcca	agctcttctc	atgagagagc	agaacaacct	180
ggcaagctta	aaggcaagtg	ttttcggtct	tttaattaaa	taggctgtga	caaaattaac	240
aataaaacta	gcccagaacc	aaccagcccg	gtaagtgtcg	tgcaaatctt	gcagtaacaa	300
aagaccatct	gagagactac	acgttggtct	ccagtcctag	caagcgtccc	attctctcca	360
cattcttata	aattgtagct	tgacatgtta	tctccttgcc	acattccata	ggaaaccagc	420

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ctcttttctcc atctcgtagt cgttccccct cataccagcc attggctgac acnttgattg 480
gatgaaggcc ancttanncc nactngcagg gagaagtcaa tttgnttgnt taaccnntna 540
atgganccctt accnanttnc acctgggggtc aagtgaaggt tcaagtctgc angcggttc 600
ccgctgctgt ggtcccaagg gcaagttatn cagcggggcc cgcgttacct tgggcccggg 660
accaacgcct taangggccg aaattttcaa gcacacttg ccggcccgtt acctagtggg 720
atnccgaact tcgggtaccc aaagccttgg gcgttaatca atgggtcaat aggcttggtt 780
tcctggtgtg naaaattggt aatccgggtc acaanttccc cacaaca 827

```

&lt;210&gt; 157

&lt;211&gt; 818

&lt;212&gt; DNA

&lt;213&gt; Homo Sapien

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(818)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 157

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aacactatga cctgatacgc cancttggtg ccgnetcggg tccctagtaa cggccgccag 60
tgtgctggaa ttgcgccctt cgagcggccg ccgggcaggt acataatctg gaaatttatg 120
ttacaggtat gcataattgt atatgaaaaa tattaactga gaaattactg agcttcttag 180
caaaaaatat aattatttca gagatatgat acagtttaat atctgccttc ctcaaaaagt 240
cagaaaaataa aaagttttaa attgcatata ttttcatttc ttacatatgt cagaacactc 300
agaattttta ataaaatggt ttaaaacata attataagtt gttactttta tttctatggt 360
tagtggaaac cacagggtcc tgtatctgat taaatggagg atatattagg agaatttttt 420
agaagaatga cacatgtgac ataccacccat atttgcaaga aaatataact tgatagtaga 480
gtaagttagc tgctttatat gatgaattaa aggcactagc tcttagaaaa aaaaggatta 540
aaatgctgac ttcagtaata atgtaaggag ctctgctctt taacatttcc taattaggta 600
taaactatga tggaagggaa aggtggaatg gaagtntcta cntnttacca ttggctttcn 660
ttcatgaaat tggcaggnag cctnccattt cnnnaggntc ttaatnaaaa antttttccc 720
aacttttntt tttcnaaaaa nttnttnncc nnatngnnaa ctgngngtga aaacccggct 780
tttttggggg gaaancctac ctggnntngg naaaaant 818

```

&lt;210&gt; 158

&lt;211&gt; 772

&lt;212&gt; DNA

&lt;213&gt; Homo Sapien

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(772)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 158

```

ntgggcccct nnagcatgct cgacggccgc cagtgtgatg gatattctga gaattcgccc 60
ttagecgtgt cgcgcccgag gtacttcaac caccctcctt acaaaactct atacccttgt 120
catattaaaa ttgtatgtta tgccaggctt ccctaataca acaaaatctc tgaataaaac 180
ctattaaata tacaatttct atcaacatgc ctgccacaca tgcttaataa ttgcttagtg 240
aatacaagat taatgcatga gtgcctaagt tacttcatct agtataacaa atgacaatat 300
ctcatttggt tcccgaagta tccattatcc attcaagctc tgaagaaagt attaatgata 360
ttcgtcctta agtaattttt tctgcattca aatctcacca ttcaaagat tttccaacag 420
tagtttcccc aaaagcagtt tacacagtta catttggtat aatttttgaa agaaaagttg 480
ggaaaatttt attaagactc tgaatgtagc ttactgccaa ttcataaaga aagcaatgta 540
atacgtagat acttcattcc acctttccct tcatcatagt ttataactaa ttaggaaatg 600
ttaaagagca gagctcctta cattattact gaagtcagca tttatacttt tttttctaag 660
agctagtgcc ttttaattcat catataaagc agctaactta ctctactatc aagttatatt 720
ttcttgcaaa tatggtggtg tgtcacatgt gtcattcttc taaaaaatc tg 772

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&lt;210&gt; 159

&lt;211&gt; 1024

&lt;212&gt; DNA

<213> Homo Sapien

<220>

<221> misc\_feature

<222> (1)...(1024)

<223> n = A,T,C or G

<400> 159

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gggccnccgg	gccccccaaa	ggtttggtt	tgggcccttt	ggggggaaaa	aattttttcc	180
gggccccccc	ntttttaaag	gcggggttgg	gggttttccc	gggcccgggg	gccccccgga	240
aaaggggttt	aaccoccttn	aatttttttn	gggtttttcc	cccccaaatn	gggtttccaa	300
tttttttttt	tttaaaaaac	ccaaaanggg	aaaaaaaggg	gttggcccaa	aatttaaggg	360
cctttctttc	aaaagggttt	cctttgggaa	aaaaaaacct	tgggttgggg	gaaaagggtt	420
ncecaaaaat	ttaaacctgg	gaaaaccttc	tttgggnaac	ccactttaaa	aatttaaant	480
taaanntaaa	tttaaattta	aanttaagga	atgggnttgg	aaaaaaaaag	gaatattccn	540
ttatattggc	cttaattttt	taatttgntn	atttgactgg	tnatgnnttt	acttttnaaa	600
aacntnctnn	ccaaaaacca	attttacntg	gncnngtggg	atttaccntn	ttcnattacc	660
ngggagttaa	cccaactnga	acntttngga	gggnccagtc	ctccataggg	acctcctca	720
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tttaaaagcn	cctcacagca	ctcactgaan	tctattatat	tatagatang	gtntattatg	840
ggaaanggg	nacanntcaa	natnncccaa	cgcggggana	cacannngnc	agngcccgat	900
gatnttccna	nacacagant	ttgggtgtct	ctggagncgt	ttccccnta	gnaaaatgtt	960
gacacntgga	cagagttttt	acccccaggg	gaacgtnaat	caatctttgg	aagtttcaaa	1020
tcag						1024

<210> 160

<211> 771

<212> DNA

<213> Homo Sapien

<220>

<221> misc\_feature

<222> (1)...(771)

<223> n = A,T,C or G

<400> 160

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ttcgagcggc	cgccccggga	ggtactgtaa	gttattttct	tccttatctc	ccaatgacac	120
tgttttctac	atgaaaaata	ccattttggc	tttatcaaca	tgttattaat	tcataatatg	180
agagatctat	cagcactatt	tgtaaaaaata	ttcaattaaa	aaaattaaga	tgatttatag	240
ttgtgtggta	aagaatttga	ccttacccaa	aggaggtcag	gcttttgccc	tcagccttaa	300
ggagataatc	ttgtcatacc	caataaaaagt	gttattttta	agtgaggctg	actacacctg	360
ataatccagc	ttgagggaca	gttatgccag	tttgaccaac	tagatgattt	agggagcttt	420
ctctcccaac	ttcaaagctg	tgatgaatca	aacaggtaat	taatcgatca	tgcttatgta	480
atgaagcctt	gattgaaact	tcaaagattg	attgacgttc	cttggttggg	aataactctgt	540
catgtgtcaa	ttctagaagg	gtaatacgtc	ctgaggataa	cagaagctct	gtgtttggaa	600
tcatectgga	ctctgcactt	tgnttctctc	gctttggctg	attttgatct	gtaaccttta	660
cctataataa	accataacta	taatataata	gatttcagtg	agtgtctgtg	ngctttctag	720
tgattttattg	aacctaaagg	tggtatgtgag	aatttnctga	acttgcagtt	g	771

<210> 161

<211> 771

<212> DNA

<213> Homo Sapien

<220>

<221> misc\_feature

<222> (1)...(771)

<223> n = A,T,C or G

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<400> 161
acncttgacc tgategccag cttggtaccg actcggaccc tagtaacggc cgccagtgtg      60
ctggaattcg cccttagcgt ggtcgcggcc cgaggtacag aatttattat gaaatagctt      120
aatggcaagt ggtaatttag aagaattaag ttatcagata ggagatata taaaatattt      180
aaaaattgga tatattcttg aagccctttt acacaagtaa tttctataat ttgattgtaa      240
tgaaagtata atataccttg ttactattat cagattaatt tttgaaagta gaattcctta      300
atcaagccaa ggttatgctg ctttataaga aattaatcag gtagtttaac actagagctc      360
attagccaac ctgtatgtag cacaaaataa tcactctctga taaataccta taaatatatt      420
ttattcatac ttttaaatat tttaacaatt aaataaaaac cttatatgta gacaatctgg      480
gctaaatttc catgtatggt ttgaaaaata atgttagcat gaatagattc atatttaaat      540
atgattttta atactcttaa tagaggagac ataagaaata ttacataaaa agctaagtag      600
catgatacag ctcatgggta ttttctcat aggaaaacaa ttacttgatt ttttttgca      660
taggattaaa gactgagtat cttttctaca ttcttttaac tttctaangg gcacttctca      720
aaacacagac caggtagtaa atctnactg ntctaaggtc tcacccact t      771

```

```

<210> 162
<211> 768
<212> DNA
<213> Homo Sapien

```

```

<220>
<221> misc_feature
<222> (1)...(768)
<223> n = A,T,C or G

```

```

<400> 162
gggcccctnn agctgctegn cggccgccag tgtgatggat atctgcagaa ttcgccctta      60
gcggccgccc gggcaggtag tacaaaaaca gaataatttt gaagttttag aataaatgta      120
atatatttac tataattcta aatgttttaa tgcttttcta aaaatgcaaa actatgatgt      180
ttagtgtgctt tattttacct ctatgtgatt atttttctta attgttattt tttataatca      240
ttatttttct gaaccattct tctggcctca gaagtaggac tgaattctac tattgctagg      300
tgtgagaaag tgggtggtgag aaccttagag cagtggagat ttactacctg gtctgtgttt      360
tgagaagtgc cccttagaaa gttaaaagaa tgtagaaaag atactcagtc ttaatcctat      420
gcaaaaaaaa atcaagtaat tgttttctta tgaggaaaat aacctgagc tgtatcatgc      480
tacttagctt ttatgtaaat atttcttatg tctcctctat taagagtatt taaaatcata      540
tttaaatatg aatctattca tgctaacatt atttttcaaa acatacatgg aaatttagcc      600
cagattgtct acatataagg tttttatttg aattgtaaaa tatttaaaag tatgaataaa      660
atatatttat aggtatttat cagagatgat tattttgtgc tacatacagg ttgggctaata      720
gagctctagt ggtaaactac ctgataattt cttataaaagc agcatacc      768

```

```

<210> 163
<211> 776
<212> DNA
<213> Homo Sapien

```

```

<220>
<221> misc_feature
<222> (1)...(776)
<223> n = A,T,C or G

```

```

<400> 163
nantatgacc tgatacgcca acttggtacc gactcggatc cactagtaac ggccgccagt      60
gtgctggaat tcgcccttag cgtggtcgcg gccgaggtag tcttcgcgag aggggaaggct      120
gtagaagtct ttgcaagctt catacagaga aatacaaaaag gtgtgatgcc attaactggt      180
cctttctaaa gcattaggaa tttagtgaat ctctcaaaaca caaaactgaa aagccatttg      240
aacaaatctc atatacttgt agataagctt ttttttattt aaagcataca aattcaaatc      300
tttcaagcag aaaattcagt caagtggagat ccattgggtg tttgagtcca aagtgcagtga      360
gcaaatggaa atcattgcgg catctctctc atttccctag tggacattag accactcaaa      420
atggtgcaca taatttacag ccccttggtg gtaattgaaat atacacgttg agagtgcact      480
ggcagaacac ttaagaaaaga ttgaatgcag gaggaccagc ttacgttatt tttggctcta      540
ctctgggttt tgcttttaat gtttttctt gagattaatt tcaattgggt tgttccatcc      600
tattcaaaaa aatgctttga gagaagagat gaacagcagc atcaataaa attgtgatat      660

```

ttagttnnag agacatcang tgttgtaate aaataagaca gaanggccaa gttaaaatct 720  
gtgattngca taaatgaatt taactgttag aatagcanaa ttgagaggtg gattan 776

<210> 164  
<211> 773  
<212> DNA  
<213> Homo Sapien

<220>  
<221> misc\_feature  
<222> (1)...(773)  
<223> n = A,T,C or G

<400> 164  
cgggcctcta gatgctgctc gacggccgcc atgtgatgga tatctgcaga attcgccctt 60  
tcgagcgccg cccgggcagg tacacagtgg ataccacata ctgcgtctga ggaagaagga 120  
ggaggagaaa gaggagaagg aaggaaatct tcaaatgaca atttctatca ggactcattt 180  
tcctattata agttcagaat acttgacgt ctttataaaa tcaagttgaa atctctacta 240  
ttttgatctg tattctctta aatattaaag gttataccta gggagattcc atgttgactg 300  
gcaaaacaaag cataccattt taagaataac tcttcataaa atatgtgtct aagaattaaa 360  
agtgtctagt aacagatata caaaagagag atttagaata attaatattt aaagacagat 420  
aattttaattg tttcacactt ttaactacaa aattctttgt tttcctaaat attagcaaaa 480  
atgttatata ttaaaataaa tcttgaaaat ctcaccctac atttagataa tagttcaaaa 540  
gtcatattgc ttaattacct ctcaattctg ctattcttac agcttaaat catttatggc 600  
aaatcacaga ttttactttg tcttctctgc ttatttgatt acaacacctg atgtctctga 660  
aactaaatat ccaatttatt tgatgctgct gttcatctct tctctcaaaag cattngtttg 720  
aatangattg aacaacccaa ttgaaattaa tctcaaggaa aaacattaaa ant 773

<210> 165  
<211> 783  
<212> DNA  
<213> Homo Sapien

<220>  
<221> misc\_feature  
<222> (1)...(783)  
<223> n = A,T,C or G

<400> 165  
tnnnnnacac tatgacctga ttacgccanc ttggtaccga ctgggatcca ctagtaacgg 60  
ccgccagtgt gctggaattc gcccttagcg tggctcgccg cgaggtagag taggaaaata 120  
agaataacaa cgggcacaaat ctttttagaa catttatgct ttatctgttt tagcttctaa 180  
aacaatcctg aaggatgaat aattatcatg agtatagcag aatttaattt tccctgttgc 240  
tccaaaattt taatgaaaac tttacggttg agagaaatag gtaaaataaaa aaacttccta 300  
aaattctaaa gacaattgtt gaataaaaatt taagtgaatg agtttgtgct tcatatttaa 360  
cttttaactt tccaataggc tttattaaat ggaaaactga aatttacaaa gtcttagagt 420  
agaagcattt ttatcctggc tagggattct ctaagagaac cagtagcacc aagatgcact 480  
ggaacagtgc aacgagagag ttcattgcctt agggtttaga agcatacaag caaagggaat 540  
ggtgcccact tcttactaga aaaatttcac aggcaggagt ctgggcggag gagcctggga 600  
tgacagttaga agtggtgcagg aagcactaag tctagcctgt acctgcccgg gcggccgctc 660  
gaaaggcgaa ttctgcagat atncatcaca ctggccggcc gntcgagcat gcatntagag 720  
ggcccaattc gcctatagtg ancgtattac aattcactgg ccgcgtttta caacgtnnng 780  
cnn 783

<210> 166  
<211> 775  
<212> DNA  
<213> Homo Sapien

<220>  
<221> misc\_feature  
<222> (1)...(775)



<223> n = A,T,C or G

<400> 166

attgggcctc	tnnagcatgc	tcgagcggcc	gccagtgtga	tggatatctg	cagaattcgc	60
ccttcgagcg	gccgcccggg	caggtacagg	ctagacttag	tgcttcctgc	acacttctac	120
tgtcatccca	ggctcctccg	cccagactcc	agcctgtgaa	atttttctag	taagaagtgg	180
gcaccattcc	ctttgcttgt	atgcttctaa	accctaaggc	atgaactctc	tcgttgcaact	240
gttccagtgc	atcttggtgc	tactggttct	cttagagaat	ccctagccag	gataaaaatg	300
cttctactct	aagactttgt	aaatttcagt	tttccattta	ataaagccta	ttggaaagtt	360
aaaagttaaa	tatgaagcac	aaactcattc	acttaaattt	tattcaacaa	ttgtctttag	420
aatttttagga	agttttttta	tttacctatt	tctctcaacc	gtaaagtttt	cattaaaatt	480
ttggagcaac	agggaaaatt	aaattctgct	atactcatga	taattattca	tccttcagga	540
ttgttttaga	agctaaaaca	gataaagcat	aaatgttcta	aaaagatttt	gccggttgtt	600
attcttattt	tcctactgna	cctcgccgcg	gaccacgcta	agggcggaatt	ccagcacact	660
ggcggccggt	actagtggat	ccgagctcgg	taccaanctt	ggcgtaatca	tggtcatagc	720
tggttctctg	gtgaaantgt	atccgntcac	aattcacaca	acatacganc	cggag	775

<210> 167

<211> 797

<212> DNA

<213> Homo Sapien

<220>

<221> misc\_feature

<222> (1)...(797)

<223> n = A,T,C or G

<400> 167

ttgnaacnat	tntgacctga	ttacgccaac	ttggtaccga	gctcggatcc	actagtaacg	60
gccgccagtg	tgctggaatt	gcgccttagc	gtggtcgcgg	ccgaggtact	ttcagaaggt	120
aaatcagtag	atcacccatg	tgtatctgca	ccttctcaac	tgagagaaga	accacagttg	180
aaacctgctt	ttatcatttt	caagatgggt	attttagtaa	ggcgaggaac	caattatgct	240
tgtattcata	agtattactc	taaatgtttt	gtttttgtaa	ttctgactaa	gaccttttaa	300
ccatgggttag	ttgctagtac	ccttccttgt	ccgaaggagc	tgaccagtat	tgatgagaga	360
gtccaggcag	ctcctgaaat	tcagctggta	gtttgttctc	tgaacatttg	gtctcttgaa	420
ggcacagtat	atctggggct	tcttccttta	cccaatctaa	tcctttcttc	ttaatccagg	480
ctcgaagccc	atncacattc	caagagcaga	tcttgagtgt	ggcaggtttg	ccactgggtg	540
aggttttctg	atctgggggg	tcctcataca	gggctggggc	cctntcctgc	tgcccttttg	600
tcattttctt	tgccggccgt	cttactcttc	ttggcctctg	gcttctgttc	tgagctcatc	660
cccgtctttc	ggccaccngt	tccccttttt	tacacgcctt	cggcatttcc	cgttaccgaa	720
cgcccttttg	gcagctgtac	ctgcccngg	cggccgttcg	aaaaggccna	attcttgca	780
aatttccatc	ncaccnn					797

<210> 168

<211> 780

<212> DNA

<213> Homo Sapien

<220>

<221> misc\_feature

<222> (1)...(780)

<223> n = A,T,C or G

<400> 168

acantatgac	ctgatacgcc	aacttggtac	cgactcggat	ccactagtaa	cggccgccag	60
tgtgctggaa	ttcgccctta	gcgtggctgc	ggccgaggta	ctccggtcgg	tgtcagcagc	120
acgcggcatt	gaacattgca	atgtggagcc	caaaccacag	aaaatggggg	gaaattggcc	180
aactttctat	taacttatgt	tggaattttt	gccaccaaca	gtaagctggc	ccttctaata	240
aaagaaaatt	gaaaggtttc	tactaaaacg	gaattaagta	gtggagtcaa	gagactccca	300
ggcctcagcg	cagctgcccg	ggcgcccgct	cgaaaaggcg	aattctgcag	atatccatca	360
cactggcgcc	gcctcgagca	tgcattctaga	gggcccattt	cgccctatag	tgagtcgtat	420
tacaattcac	tgcccgctcg	tttacaacgt	cgtgactggg	aaaaccctgg	cgttacccaa	480

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cttaaatcgcc ttgcagcaca tcccccttcc gccagctggc gtaatagcga agaggcccg 540
accgatcgcc cttcccaaca gttgcgcagc ctgaatggcg aatggacgcg ccctgtaacg 600
gcgcattaag cgcgccgggt gtgggtggtta cgcgcagcgt gaccgcgtaca cttgccagcg 660
ccctancgcc cgctncttcc gctttcttcc ctttctttct tngcacgttc gccggctttt 720
cccgtcaagc tctaaatcgg gggtctcttt tanggttccg atttantgct ttacnagnacn 780

```

&lt;210&gt; 169

&lt;211&gt; 771

&lt;212&gt; DNA

&lt;213&gt; Homo Sapien

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(771)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 169

```

gggcnctng agcatgctcg acggccgccca tgtgatggat atctgcagaa ttcgcccttt 60
cgagcggccg cccgggcagg tacgtgagg cctgggagtc tcttgactcc actacttaat 120
tccgtttagt gagaaacctt tcaattttct tttattagaa gggccagctt actgttggtg 180
gcaaaattgc caacataagt taatagaaag ttggccaatt tcacccatt ttctgtggtt 240
tgggtctcac attgcaatgt tcaatgccgc gtgctgctga caccgaccgg agtacctcgg 300
ccgcgaccac gctaaggcg aattccagca cactggcggc cgttactagt ggtaccgagc 360
tcggtaacca gcttggcgta atcatggtca tagctgtttc ctgtgtgaaa ttgttatccg 420
ctcacaattc cacacaacat acgagccgga agcataaagt gtaaagcctg ggtgacctaa 480
tgagtgaagt aactcacatt aattgcgttg cgctcactgc ccgctttcca gtcgggaaac 540
ctgtcgtgcc agctgcatta atgaatcggc caacgcgcgg ggagaggcgg ttgctgtatt 600
gggcgtctct ccgcttnctc gctcactgac tcgctgcgct cggtcgttcn gctgcggcga 660
gcggtatcaa gctactcaaa ggcnctaata ccgntatcca cagaatcagg ggataacgca 720
ggaaagaaca ttgtgagcaa aaggcancaa aagggcagga accgtaaaaa n 771

```

&lt;210&gt; 170

&lt;211&gt; 777

&lt;212&gt; DNA

&lt;213&gt; Homo Sapien

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(777)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 170

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acacttgacc tgatacgcca acttgggtacc gagctcggac cactagtaac ggccgccagt 60
gtgctggaat tcgcccttag cgtggctcgc gccgaggtag acagaatagc tgagcagttc 120
acttcaggga tcaggtcata tctgctcttc ctagtctcac catgttctgg caataaaaaa 180
cacatattat atcctggttt tctctatcct tgcattacta aggtgactgt ctctctttat 240
acatccttgt atggttctcc cagtattagc aagattgtat atctgtaaag aatgtccagt 300
tttgtaaaata ttccctgcc ttttttttcc tttttttaca tctgatttta atgcttcggt 360
aacttcaaaa ggaactggta gagttcagaa ggtgagctgt tgtttttcta aacctcttcc 420
caggaagggg acattgacac ttgaattttt gtcacctttt tcctcattag aaggaaagta 480
gaaagcctta ctgtaggatt tttaaaaaaa aatccatctc accccatatt ggtcttaaat 540
aagtatagac taattaacct aagctacctt taacaacgta gaatttagat gggttcatat 600
atgtgagaaa aacctgaata taggacaggg gtccactctt tttccccacc tctgtcgccc 660
aggctagagt atagtgggtg gatcttggcc cactgnaacc tctgcttctt anggtcaagt 720
gattcttctt gcctcacctt ccaagtagct gggattggaa gaatatgccn ccccccg 777

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&lt;210&gt; 171

&lt;211&gt; 782

&lt;212&gt; DNA

&lt;213&gt; Homo Sapien

&lt;220&gt;

<221> misc\_feature

<222> (1)...(782)

<223> n = A,T,C or G

<400> 171

nngggcccnt	agagcatgct	cgacggccgc	cagtgtgatg	gatatctgca	gaattcgccc	60
tttcgagcgg	cgcgccgggc	aggtactttt	tttttttttt	tttttttttt	tttaattaat	120
tagaaagtag	gctgggcacg	gtggctcatg	cctataatcc	cagcacttgg	ggaggccgag	180
gatctctctt	ctgggtggatc	acttgagggc	aggagttaag	agaccatcct	ggccaacatg	240
atgaaaccct	gtctctacta	aaaatacaaa	aagttagctgg	gcgtgggtggc	atactcttac	300
aatcccagct	acttggggagg	ctgaggcagg	agaatcactt	gaacctagga	agcagagggt	360
gcagtgggcc	aagatcacac	cactatactc	tagcctgggc	gacagagggtg	gggaaaaaag	420
taggaccctt	gtcctatat	cagggttttc	tcacatatat	gaacccatct	aaattctacg	480
ttgttaaagg	tagcttaggt	taattagtct	atacttattt	aagaccaata	tgggggtgaga	540
tggatttttt	tttaaaaaatc	ctacagtaag	gctttctact	ttccttctaa	tgaggaaaaa	600
ggtgacaaaa	attcaagtgt	caatgtcccc	ttcctgggaa	gaggtttaga	aaaacaacag	660
ctcaccttct	gaactctacc	agttcctttt	tgaagttaa	ccgaagcatt	aaaatcagat	720
gttaaaaaag	aaaaaaaaaa	ggcngggaaa	atatttacaa	aactgggaca	ttctttacag	780
an						782

<210> 172

<211> 773

<212> DNA

<213> Homo Sapien

<220>

<221> misc\_feature

<222> (1)...(773)

<223> n = A,T,C or G

<400> 172

canttgcact	gatacgccaa	cttgggtaccg	actcggacca	ctagtaacgg	ccgccagtgt	60
gctggaatc	gcccttttga	gcggccgccc	gggcaggtac	catactgtgg	ctccttaagg	120
aggctctctt	ctttaattct	ccatgaggca	tecagggtgg	tctgggctat	gggaagaacc	180
cttcaacttg	ggagtagaca	ggtgctccaa	ttcatagtgc	ccattctcag	aggccttggt	240
tgtgagtttc	tccttcattgc	cttccttctg	gctcttcttg	tgctccataa	tctgctggag	300
ctgggtcccc	gcatagtctg	gcttgggtggt	cagcggggcca	gccggcacag	ctacaccaag	360
gacatctgac	accatgtagg	ggcgcagcca	gcccaccaag	ggagtgcctc	cggggctgta	420
gtgggtctgt	ttgtggtaga	agagaagtcc	atctacctca	aaagggaaat	ccatagatag	480
cacatcacac	aggcttttcgg	gagtgcgaag	gaagttcttt	agccccacaa	atttaaaaag	540
attaagcttg	gttttctctc	ccagtccttc	ttcttctggt	aactttgaat	gcacccagta	600
gaatcggaaa	tcaagtctgg	caatcataaa	aagggtgtcc	ccgccagcac	atcacattca	660
gaacgtagta	ggtctggttt	acctcattgt	aaatgcaatc	tagaatggtg	taagcttttg	720
ctgntgaagt	ttccctgtgc	ctctggcaga	atgaagaaan	ctgttgacac	aac	773

<210> 173

<211> 772

<212> DNA

<213> Homo Sapien

<220>

<221> misc\_feature

<222> (1)...(772)

<223> n = A,T,C or G

<400> 173

ntgggcctct	nnagctgctc	gacggccgcc	atgtgatgga	tatctgcaga	attcgccctt	60
agcgtggteg	cggcccgagg	acagttcctt	ggagcagagt	gagcgcgcc	ggaggttact	120
ggaactgcag	aaatccaagc	ggctggatta	tgtgaacat	gccagaagac	tggtgaaga	180
tgactggaca	gggatggaga	gtgaggaaga	aaaataagaa	agatgatgaa	gaaatggaca	240
ttgacactgt	caagaagtta	ccaaaacact	atgctaata	attgatgctt	tctgagtgg	300
taattgacgt	tccttcagat	ttggggcagg	aatggattgt	ggctgtgtgc	cctgttgga	360

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aaagagccct tategtggtc tccaggggtt ctaccagtgc ctacaccaag agtgggtact 420
gtgtcaacag gttttcttca cttctgccag gaggaacag gcgaaactca acagcaaaaag 480
actacaccat tctagattgc atttacaatg aggtaaacca gacctactac gttctggatg 540
tgatgtgctg gcggggacac cctttttatg attgccagac tgatttcgga ttctactgga 600
tgcattcaaa gttaccagaa gaagaaggac tgggagagaa aaccaagctt aatcctttta 660
aatttgtggg gctaaagaac ttcccttgca ctcccgaaag cctgtgtgat gtgctatcta 720
tggatttctt tttgaggtag atggacttct cttctaccac aaacagaccc ac 772
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<210> 174

<211> 780

<212> DNA

<213> Homo Sapien

<220>

<221> misc\_feature

<222> (1)...(780)

<223> n = A,T,C or G

<400> 174

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acactatgac ctgatacgcc aagcttggtg cggagctcgg atccactagt aacggccgcc 60
agtgtgctgg aattcgccct tagcgtggtc gcggccgagg tacaaaaata catTTTTCCA 120
catacaaaag agagaaaaaa acaaagacat gtggcgggtg gcgaggggag gcccaatccc 180
aacaccctac aaggttccat ggaatggaga aggaacaaaa aaatccccc aaattttggg 240
gtaagatgtg ccccgaaaaa ggtgaaatct atgcaataaa acccaggttt tcttcaaatc 300
tagcatctag gatttctatc agagtttcaa ataactcagaa tttctatcag aatttctacc 360
ctgagggtgac acctactaac tgtagggttct ttcattaaaa atgaagacat ctttcaccag 420
aatgtatcaa gctataaaac tggcttcaga gcctacactt agccagagtg gaaaaaaaat 480
agtgcataatt ttcgacagca attttgaatt gatgcttgag gtctcaatcc accagcacc 540
agatatcatg ttacctccct cagttgaata caagttaaaa tgatgatctt atcgagatct 600
caatagagca agtgccctt catgtttcgg gtaagaagggt gggaggaggga atgaagccgg 660
gtattacacc cagcccaatg acagcttaag ccttaacatg cnggcattct acaatgacca 720
taaacaaggg angggccaag canggctngc gatcattact ttgcgcacag aatgccatgt 780
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<210> 175

<211> 771

<212> DNA

<213> Homo Sapien

<220>

<221> misc\_feature

<222> (1)...(771)

<223> n = A,T,C or G

<400> 175

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gggcctctag agcatgctcg agcggccgcc atgtgatgga tatctgcaga attcgccctt 60
tcgagcggcc gccgggcagg tactaaaaca gctttgctta tggtggccag gggaaaaaat 120
ggcattctgt gcgcaaagct aatgatcgcc agccctgcct tggccctccc cttgtttatg 180
gtcattgtaa gatgcccgca tgttaaggct taagctgtca ctgggctggg tgtaataccc 240
gcttcattcc tctccacc ctcttaccgg aaacatgaag ggcactgtgc tctattgaga 300
tctcgataag atcatcattt taacttgtat tcaactgagg gaggtaacat gatattctgg 360
tgctggtgga ttgagacctc aagcatcaat tcaaaaattgc tgtcgaaaat atgcactatt 420
ttttttccac tctggctaag tgtaggctct gaagccagtt ttatagcttg atacattctg 480
gtgaaagatg tcttcatttt taatgaaaga acctacagtt agtaggtgtc acctcagggt 540
agaaattctg atagaaattc tgattatttg aaactctgat agaaatccta gatgctagat 600
ttgaagaaaa cctgggtttt attgcataga tttcaccttt tctggggcac atcttacc 660
aaaataattg gggatttttt tgnctcttct ccattccatg gaaccttgta ggggtgtttg 720
gattgggctt tccctngcca cccgccacat gtctttggtt ttttctctct t 771
```

<210> 176

<211> 773

<212> DNA

<213> Homo Sapien

<220>  
<221> misc\_feature  
<222> (1)...(773)  
<223> n = A,T,C or G

<400> 176  
atnngggcctc tagagcatgc tcgagcggcc gccatgtgat ggatatctgc agaattcggc 60  
cttagcgtgg tcgcggccga ggtactcatg tatttttttt tttttccaga tctctttccc 120  
caagttgcta ttgtaagagt attctgctgc gtgtggatgc agttatacac attaaagcag 180  
atctggagtc tgaagtagct ataaagcagc tataaaacag aaatacatgc atagctgcag 240  
aaaccatgat aggtagagga cttttctttt ggttttgttt tgttttgttt tgttttgttt 300  
ttggttttac agagaagaga tttttattac aaagaaaaaa attccagtga attgtgcaga 360  
aatgctgggtt ttacaccat cctaagaaaa aactttacaa ggggtgtttg gagtagaaaa 420  
aaggttataa agttggaatc ttaaatgtta aaattaacca ttgagtgtca aagttctaaa 480  
agcagaactc attttgtgca atgaacataa ggaaagacta ctgtataggt ttttttttct 540  
tccttttaac tgaagaaaaa ctttgcctaa ggggtgcata cttttattgg agtaaatctg 600  
aatgatccta ctcccttggg gtaaaactag tgcttaccag tttccaatgg tatttagctt 660  
ctggttgga tttgaaaaaa aaagaaaaaa agaaaaagaa aacctaaata aaataggtga 720  
aagttccctg actattcagg tgaatacnca aaaanaaaaa nnnnnnaann nnt 773

<210> 177  
<211> 772  
<212> DNA  
<213> Homo Sapien

<220>  
<221> misc\_feature  
<222> (1)...(772)  
<223> n = A,T,C or G

<400> 177  
acattngacc tgatacgcca gcttgggtacc gagctcggat ccactagtaa cggccgccag 60  
tgtgctggaa ttcgccctta gcgtggctgc ggccgaggta cagtaggaaa ataagaataa 120  
caacgggcaa aatcttttta gaacatttat gctttatctg ttttagcttc taaaacaatc 180  
ctgaaggatg aataattatc atgagtatag cagaatttaa ttttccctgt tgctccaaaa 240  
ttttaatgaa aactttacgg ttgagagaaa taggtaaata aaaaaacttc ctaaaattct 300  
aaagacaatt gttgaataaa atttaagtga atgagttgt gcttcattat taacttttaa 360  
ctttccaata ggctttatta aatggaaaaa tgaaatttac aaagtcttag agtagaagca 420  
tttttatcct ggctagggat tctctaagag aaccagtagc accaagatgc actggaacag 480  
tgcaacgaga gagttcatgc cttanggttt agaagcatac aagcaaaggg aatgggtgcc 540  
acttcttact agaaaaattt cacaggctgg agtctgggcg gaggagcctg ggatgacagt 600  
agaagtgtgc aggaagcact aagtctagcc tgtacctgcc cgggcggncg ctcgaagggc 660  
gaattctgca gatatccatc aactggcgg ccgctcgagc atgctctana gggcccaatt 720  
cgccctatag tgagtcggat tacanttnaa tggccgncgt tttacaacgt cc 772

<210> 178  
<211> 770  
<212> DNA  
<213> Homo Sapien

<220>  
<221> misc\_feature  
<222> (1)...(770)  
<223> n = A,T,C or G

<400> 178  
attgggcccc tnnagcatgc tcngcgggcc gccagtgtga tggatatctg cagaattcgc 60  
ccttcggagc gccgccggg caggtacagg ctgacttag tgcttcctgc acacttctac 120  
tgtcatccca ggctcctcgg ccagactcc agcctgtgaa atttttctag taagaagtgg 180  
gcaccattcc ctttgcctgt atgcttctaa accctaaggc atgaactctc tcgttgcaat 240  
gttccagtgc atcttggtgc tactggttct cttagagaat ccctagccag gataaaaatg 300

```
cttctactct aagactttgt aaatttcagt tttccattta ataaagccta ttggaaagt 360
aaaagttaaa tatgaagcac aaactcattc acttaaatat tattcaacaa ttgtctttag 420
aatttttagga agttttttta tttacctatt tctctcaacc gtaaagtttt cattaaaatt 480
ttggagcaac agggaaaatt aaattctgct atactcatga taattattca tccttcanga 540
ttgttttaga agctaaaaca gataaagcat aaatgttcta aaaagatttt gcccggtggg 600
attcttattt tcctactgta cctcgccgcn gaccacgcta agggcgaatt ccagcacact 660
ggcgccgnt actagtggat ccgagctcgg tacccaanct tggcgtaatc atggncatag 720
ctgttctcgn gngaaatngn natncgntna caatnccac acatacnann 770
```

&lt;210&gt; 179

&lt;211&gt; 502

&lt;212&gt; DNA

&lt;213&gt; Homo Sapien

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(502)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 179

```
cnntttgacn tgattcgcca acttggtacc gagctcggat ccctagtaac ggccgccagt 60
gtgctgggaat tcgcccttag cgtgggtcgc gccgaggtac ctggcccca acttctcgaa 120
taaaatgaaa ctatgattct tggcctcact cactaccatg tgacattgat caaatcactt 180
cacctctcca aacctcagag tctttatctg taagatggaa aaagtaacac ctacttcagg 240
ggctgtcatg aggattaaat aaatgtgccc agcaggtagt aagtatacaa cacaaagcat 300
ctaattggtc attcatatcat ttgcttattt tgcaattatt ggccacctgc caatgttggg 360
cactgttcta ggcacagggg atacagcaag ggcaaacacc taactactgg tggagggag 420
acgataaaca aatacgtaaa gatttgtgcc aggtagtgat aaaagcaaaag aatgactcat 480
ggagagggtc agctggggag ac 502
```

&lt;210&gt; 180

&lt;211&gt; 823

&lt;212&gt; DNA

&lt;213&gt; Homo Sapien

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(823)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 180

```
gggccttnna gcatgctcga cggccgccat gtgatggata tctgcagaat tcgccctttc 60
gagcggccgc ccgggcaggt actgcgtggt cccccagct gacctctcc atgagtcatt 120
ctttgctttt atcactacct ggcacaaatc tttacgtatt tgtttatcgt cttccctcca 180
ccagtagtta ggtgtttgcc cttgctgtat cccctgtgcc tagaacagtg cccaacattg 240
gcaggtggcc aataattgca aaataagcaa atgtatgaat gaaccattag atgctttgtg 300
ttgtatactt actacctgct gggcacattt atttaacct catgacagcc cctgaagtag 360
gtgttacttt ttccatctta cagataaaga ctctgaggtt tggagaggtg aagtgatttg 420
atcaatgtca catggtagtg agtgaggcca agaatcatag tttcatttta ttcgagaagt 480
tggggggccag gtacctcggc cgcgaccacg ctaaggcgga attccagcac actggcggcc 540
gttactagtg gatccgagct cggtagcaag cttggcgtaa tcatgggtcat agctgtttcc 600
tgtgtgaaat tgttatccgc tcacaattcc acacaacata cgagccggaa gcataaagtg 660
taaaagcctgg ggtgcctaata gaggtagcta actcacatta attgcgttgc gctcactgcc 720
cgcttttcag tcgggaaacc tgtcgtgccg gctgcattaa tgaatcggcc aacgcgccgg 780
gaaaagcngn ttgcttattg gggcgctcct ncgctttctt gc 823
```

&lt;210&gt; 181

&lt;211&gt; 501

&lt;212&gt; DNA

&lt;213&gt; Homo Sapien

&lt;220&gt;

<221> misc\_feature  
 <222> (1)...(501)  
 <223> n = A,T,C or G

<400> 181  
 cantatgacn tgattcgcca acttggtacc ngctcggatc cctagtaacg gncgccattg 60  
 tncctggaatn cgcnccttagc gtgggtcgcg cggaggtact ttcttcnttt nctnnaattt 120  
 tccataacct agtgccngnt tgatnccctc acatggntgg ttcacatnnc cngtacagan 180  
 gnccggnac catggganag ggcagcactc ntnccttctn angggatctt ggcctaangg 240  
 tgtacnaagg gagangatgg antntcttct gncctcnccta nggcctaggg aaccacagnag 300  
 canatccac nacnccttctn atntttnagc caaggagaag ccccttggtg acnttnagtt 360  
 ccaaccatta tacncagtgn gagaatggat nntcctggtc ccaaccatta cagggtgaag 420  
 atatnaacag ttaaggaga tacagtttng atgaggcctc anganggagc agntnacacc 480  
 atcatannca tatgcaggga a 501

<210> 182  
 <211> 830  
 <212> DNA  
 <213> Homo Sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(830)  
 <223> n = A,T,C or G

<400> 182  
 ggcccttnga ngcatgctcg acggccgcca tgtgatggat atctgcagaa ttccgcccttt 60  
 cgagcggccg cccgggagcag tacacgagaa gctccgagga tggctgaagt ccaacgtctc 120  
 tgatgcggtg gctcagagca cccgtatcat ttatggaggc tctgtgactg gggcaacctg 180  
 caaggagctg gccagccagc ctgatgtgga tggcttctt gtgggtggtg cttccctcaa 240  
 gccgaattc gtggacatca tcaatgccaa acaatgagcc ccatccatct tccctaccct 300  
 tcctgccaaag ccagggacta agcagccagc aagcccagta actgcccttt ccctgcatat 360  
 gcttctgatg gtgtcatctg ctccctcctg tggcctcctc caaactgtat cttcctttac 420  
 tgtttatate ttcaccctgt aatggttggg accaggccaa tcccttctcc acttactata 480  
 atggttggaa ctaaacgtca ccaaggtggc ttctccttgg ctgagagatg gaaggcgtgg 540  
 tgggatttgc tcttgggttc cctaggccct agtgagggca gaagagaaac catcctctcc 600  
 cttcttacac cgtgaggcca agatccctc agaangcang agtgcttgcc cttcccatgg 660  
 tgcccgtgcc tcttgtgctg ngatgtgaa ccaccccatg tgagggaata aacctggcac 720  
 tangtctttg aaaaaaanaa aaacntnaaa aaaantccct tcggccgnga ccacgctaag 780  
 gnccaattcc ancacaatgg gcgnncgtna ctantggatc caaccttntc 830

<210> 183  
 <211> 484  
 <212> DNA  
 <213> Homo Sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(484)  
 <223> n = A,T,C or G

<400> 183  
 ttgacatgat acccaacttg taccgagctc ggatccacta gtaacggccg ccagtgtgct 60  
 ggaattcgcc ctttenagcg gccgcccggg caggtacccc agcccgcgcc actgagtttg 120  
 ccttctatcc gggatatccg ggaacctacc agcctatggc cagttacctg gacgtgtctg 180  
 tgggtgcagac tctgggtgct cctggagaaac cgcgacatga ctccctgttg cctgtgggca 240  
 gttaccagtc ttgggctctc gctgggtggc ggaacagcca gatgtgttgc caggggagaa 300  
 agaaccacac angtcctttt ttggaggcca gcatttgacg acttcaacgg gcaaaaacctc 360  
 tgacgcctgc gcctttcgtc gcggncgcag aaaccatttc gnactttaan attgaatctt 420  
 ctctaagggt ganaatttct ggatcccttg anaactttta canntgnnct ttantcctt 480  
 taaa 484

<210> 184  
<211> 824  
<212> DNA  
<213> Homo Sapien

<220>  
<221> misc\_feature  
<222> (1)... (824)  
<223> n = A,T,C or G

<400> 184  
ggccttagag ctgctcgacg gccgccatgt gatggatata tgcagaattc gcccttagcg 60  
tggctgcggc cgagggtacca gattggccac tctagggtag aacaccaggt agattcctaa 120  
ggttcctgac tccaggccct ggctcccagt tggcatctct ggacctactt ggggtcacag 180  
tgaactcact gccctgaagg gaagatgcct ggctggatat gccacctgct gattggagag 240  
tccttggaac ttgagtgaac acagggtgta gccaggcagt gatcatcata gcccttgggt 300  
gagccccagt gctgtgttgg cttcaggtct gacacagagc tgtcccagtg gtagtgcgca 360  
caggggtgct tgtgtcatca tcccttctcc agtccaggc agtcagcac agagacatag 420  
tgtccatttg tttgagtga agtaaaagaa gagaacaaga gtctccacct agtaatccag 480  
ggaattctcc cagatcttac ccaagacaac caaggcaaga gacacagcat tactgggctg 540  
gaggtgcccc ctaatgcagg tatggctgca gtgaacaaag acttagatca caacacccaa 600  
atcccttcta atagttggaa agccttncca agaaggatgc cggacaaaca agcccaaact 660  
gtgaagacta caacaaatac ctaactcttt caatgcccag acactgaaga atatcccaaa 720  
ctttaagacc atccatgaaa acatgacctt accaacaagc taaataagac accagtgacc 780  
aatcccagag agatagagat atgtgtcctt tcnnacagag aatt 824

<210> 185  
<211> 499  
<212> DNA  
<213> Homo Sapien

<220>  
<221> misc\_feature  
<222> (1)... (499)  
<223> n = A,T,C or G

<400> 185  
cacttgacnt gatacgccaa cttgtaccga ctccggatcca ctagtaacgg ccgccagtg 60  
gctggaattc gcccttagcg tggctgcggc cgagggtactt tttctttttt ntntatttt 120  
tttttttctg ctccccaaag ctttatctgt cttgactttt taaaaaagtt tgggggcaga 180  
ttctgaattg gctaaaagac atgcattttt aaaactagca actcttattt ctttcttta 240  
aaaatacata gcattaaatc ccaaatccta tttaaagccc tgacagcttg agaagggtcac 300  
tactgcattt ataggacctt ctggtggttc tgctgttacg tttgaagtct gacaatcctt 360  
gagaatcttt gcatgcagag gaggtgaagag gtattggatt ttcacagagg aagaacacag 420  
ccgcanaatg aagggccagg cttactgagc tgccaatgga gggctcatgg gtgggacatg 480  
gnaaagaagg cacctagcc 499

<210> 186  
<211> 504  
<212> DNA  
<213> Homo Sapien

<220>  
<221> misc\_feature  
<222> (1)... (504)  
<223> n = A,T,C or G

<400> 186  
cacttgacnt gatacgccaa cttggtaccg agctcggatc cctagtaacg gccgccagtg 60  
tgctggaatt cgcccttagc gtggctgcgg ccgagggtacc tcaggagggtc tgcaagtgtg 120  
tggtttaggt aaaaactganc tgtgcaaaact cactgtatcc aagctcttct catgagagag 180  
cggaacaacc tggcaagctt aaaggcaagt gttttcgttc ttttaattaa ataggctgtg 240



acaaaattaa	caataaaact	agcccagaac	caaccagccc	ggtaagtgtc	gtgcaaattct	300
tgcagtaaca	aaagaccatc	tgagagacta	cacgttggtc	tccagtccta	gcaagcgtcc	360
cattctctnc	acattcttat	caattgtagc	ttgacatggt	atctccttgg	cacattccat	420
aggaaaccag	cctctttctn	catctcgtag	tcgntccccc	ttataccagc	catcgctgac	480
acgtttgata	gatgaagacg	acgt				504

&lt;210&gt; 187

&lt;211&gt; 822

&lt;212&gt; DNA

&lt;213&gt; Homo Sapien

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(822)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 187

gggcctctna	gctgctcgnc	ggccgccatg	tgatggatat	ctgcagaatt	cgcccttttcg	60
agcggccgcc	cgggcaggta	cgccggggact	gggtttttct	cctttttgtag	cctttttcctt	120
tagtctcctc	ttcccgggtg	ttggtaaaaa	gaggtgaatt	gacagccctat	gttgaagaca	180
ctgtgctttt	ctcaagaagg	acatccaaaac	agcaagtcta	cttctttctc	tttaacgatg	240
tgctcattat	caccaagaag	aagagtgaag	aaagttacaa	cgtaaatgat	tattccttaa	300
gagatcagct	attggtggaa	tcttgtgaca	atgaagagct	taattcttct	ccaggggaaga	360
acagctccac	aatgctctat	tcaagacaga	gctctgccag	tcacctcttt	actctgacag	420
tccttagtaa	ccacgcgaat	gagaaaagtgg	agatgctact	aggagctgag	acgcagagcg	480
agcgagcccc	ctggataact	gccctgggac	acagcagcgg	gaagccgcct	gcagaccgaa	540
cctcactgac	ccaggtggaa	atcgttaggt	catttactgc	taagcagcca	gatgaactct	600
ccctgcagggt	ggctgacgtc	gtcctcatct	atcaacgtgt	cagcgatggc	tggtatgagg	660
gggaacgact	acgagatgga	gaaaagaagct	ggtttcctat	ggaatgtgcc	aaggagataa	720
catgtcaagc	tacaattgat	aagaatgtgg	agagaatggg	accttgctag	gactggagac	780
caacgtgtag	tctctcaaan	gncttttggt	actgcaagat	tg		822

&lt;210&gt; 188

&lt;211&gt; 504

&lt;212&gt; DNA

&lt;213&gt; Homo Sapien

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(504)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 188

tatgancatg	atacgccaac	ttggtaccga	gctcggatcc	actagtaacg	gccccccagt	60
gtgctggaat	tcgccccttag	cgtgggtcgcg	gccgagggtac	caaaaaagta	aacattgata	120
atatggcctg	acaacaatca	gatatgctaa	gctctagaag	caaaagcaag	gtaggattgc	180
ctccaaatgt	tgacaggtag	tagccatacc	acagtaacta	gatctaattg	gagggctaaa	240
tgccctggaga	ggcagaaccc	taaaggatgc	ttagttatag	ctccatgctg	ccgccgagtg	300
gcttgatgct	ccattacacc	ctccttggtg	ccaaccttcc	attaaggctg	aaggctctag	360
agggcagagt	attcaagatg	ttagatctgg	tccaagccca	aattctagag	ttaaaagcag	420
aggggttctt	agtggctgaa	aaaaaacaaa	acctgatgac	atttgggact	ccagttttga	480
ggaaaggctc	tgatgatgag	gctt				504

&lt;210&gt; 189

&lt;211&gt; 842

&lt;212&gt; DNA

&lt;213&gt; Homo Sapien

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(842)

&lt;223&gt; n = A,T,C or G

```

<400> 189
nnnnnnnnntt tttgaaccgg cccntnnang catgctcgac ggccgccatg tgatggatat    60
ctgcagaatt cgccctttcg agcgccggcc cgggcaggta ccccttctcg ttttgccatt    120
agccaaggat agaagctgca gtggtattaa ttttgatata atctttcaaa ccagcttcat    180
gtggcttccc ttttctttgt tcaagatgag ggccaggagg ggaacatca cacctgccct    240
aaaccctggt cctggaggtc agcatttgat ctggtgcaag cccctctttc tgtccctct    300
tcctaccctg cctcccata ctttgcctc cacttttg gaaccatgcc ttccgggggg    360
gcccactctc tctggccgtc cttgtctctg ggccacttgg agtgtgtgat aaatcagtca    420
agctgttgaa gtctcaggag tctctggtag cctgcagaag taagcctcat catcagagcc    480
tttctcaaaa actggagtc caaatgtcat cagggtttgt tttttttcag ccactaagaa    540
cccctctgct tttaactcta gaatttgggc ttggaccaga tctaactct tgaatactct    600
gccctctaga gccttcagcc ttaatggaag gttggatcca aggagggtgt aatggagcat    660
caagccactc ggccgcagca tggagctata actaagcatc ctttaggggt ctgcctctcc    720
aggcatttag cccctacatt agatctagtt actgtggtat ggctaatacc tgtcaacatt    780
tggaggcaat cctaccttgc ttttgcctct agagcttagc atatctgatg gttgcaggcc    840
cg

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<210> 190

<211> 503

<212> DNA

<213> Homo Sapien

<220>

<221> misc\_feature

<222> (1) ... (503)

<223> n = A,T,C or G

```

<400> 190
actatgacct gattacgcca agcttggtag cgagctcgga tccctagtaa cggccgccag    60
tgtgttgaaa ttgcgccctt cgagcgcccg cccgggcagg taccatgctg acttcttggt    120
atcttttaag gcctaatttt cccttccttg agattactgt agtgtgttcc agctaatttc    180
tatttggaaa cgagttggaa cagctgaaaa ctaggattta ttgaaggcaa agcagcctca    240
cgtcagtttt ttatcagctc atttgggaag tttttttttt ttttttttaa ttaattagaa    300
agtaggctgg acacgggtgc tcatgcctat aatcccagca cttggggagg ccgaggatct    360
cctctctggt ggatcacttg agggcaggag ttaagagacc atcctggcca acatgatgaa    420
acctgtcttc tactaaaaat acaaaaagta nctgggcgtg gtggcatact cttacaatcc    480
cagctacttg ggaggctgag gca

```

<210> 191

<211> 829

<212> DNA

<213> Homo Sapien

<220>

<221> misc\_feature

<222> (1) ... (829)

<223> n = A,T,C or G

```

<400> 191
gggcctctga gcatgctcga cggccgccat gtgatggata tctgcagaat tcgcccttag    60
cgtggtcgcg gccgaggtac tttttttttt tcttttttta catctgattt taatgcttcg    120
ttaacttcaa aaggaaactgg tagagttagc aaggtagagc gttgtttttc taaacctctt    180
cccaggaagg ggacattgac acttgaattt ttgtcacctt tttcctcatt agaaggaaaag    240
tagaaagcct tactgtagga tttttaaaaa aaaatccatc tcaccccata ttggtcttaa    300
ataagtatag actaattaac ctaagctacc tttaacaacg tagaatttag atgggttcat    360
atatgtgaga aaaacctgaa tataggacag gggctcctact tttttcccca cctctgtcgc    420
ccaggetaga gtatagtggg gtgatcttgg cccactgcaa cctctgcttc ctaggttcaa    480
gtgattctcc tgcctcagcc tccaagtag ctgggattgt aagagtatgc caccacgccc    540
agctactttt tgtattttta gtagagacag gggttcatca tgttggccag gatggtctct    600
taactctgc cctcaagtga tccaccagag aggagatcct cggcctnccc aagtgtctgg    660
attataggca tgagccaccg tgtccagcct actttctaata taattaaaaa aaaaaaaaaa    720

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aaactttcca aatgagctga taaaaaactg acgtgaggct gctttgcctt caataatacc 780  
tagttttcag ctgtccaact cgtttccaaa tagaaattaa gctggggang 829

<210> 192  
<211> 503  
<212> DNA  
<213> Homo Sapien

<220>  
<221> misc\_feature  
<222> (1)...(503)  
<223> n = A,T,C or G

<400> 192  
ntatgaccat gattacgcca agcttggtac ccgagctcgg atccactagt aacggccgcc 60  
agtgtgctgg aattcgccct ttcgagcggc cgcccgggca ggtactgcct ttgggcttct 120  
tctctctcct gttttctcct ctcgatttct ttactgtttt aatacattgt tcttctggct 180  
gaggctgggc aaagctacac tgatcttcaa ataaaggctc gtcaatgcta cactgttctt 240  
caagcaacgg ctgggtgaact tgttctgaca aaggatgggc gacttttctt gcttgcttcc 300  
tatgtctttc ctcttcagct aaatagagat gtttcagatt atctgggtat cgatctgtga 360  
attgagattc cagtgcggtt tgagccttct tttccttcgg tagcaatttc ttgtaacttt 420  
gctgtatttt cagttttctt cgaaaagcaa agccttgtcc ctgcggaacg ctccccacga 480  
agcttgccggg tgggttaggcc gca 503

<210> 193  
<211> 834  
<212> DNA  
<213> Homo Sapien

<220>  
<221> misc\_feature  
<222> (1)...(834)  
<223> n = A,T,C or G

<400> 193  
ancggctctc tagagctgct cgacggccgc catgtgatgg atatctgcag aattcgccct 60  
tagcgtgggc gcggcncgag gtacaattca ttatgtgttt cattaattac ctttattaaa 120  
aacaacacaa ttatattaca atagggacaa aaaatgttta agcaaatgaa aacgaaacca 180  
tgacataccc aaactcagga ggaggcaaca aaggcagtg taaagggag cttacagctc 240  
cagatgctta aattaaaaag aagaagatc tcaaacccat gctaaaggga agcttacagc 300  
tacagatcct taaattaaaa agaagaaaaga tctcaaaccc atgctaaagg gaagcttaca 360  
gctgcagatg cttaaattaa aaagaagaaa gatctgaaac ccttgctaaa gggaagctta 420  
tagctgcagg tgcttaaat aaaaagaaga aagatctcaa atcaataacc taacattaca 480  
cctgaagggg gggaaaaaaa ctaatgacaa accaagcaaa aggaagaaaa taacagatta 540  
gagcagagat aagcagaata agaccagaaa aaaggaaaaa aacactgagt ttgttttttt 600  
aaagatcaat aaaaatttta aaactcacag ctatattaag aaaaaagaga aatctcaaat 660  
actaaaatca taagtaaaag angtgacagt acaggaataa gaatgtgaga cagaagacat 720  
ggcggcctac caccgcgaag ccttcgtggg gagcgttcgc ganggacaag gctttgcttt 780  
tcgaagaaaa ctgaaaatnc cgcaaagttc cagaaattgt tcngaagaaa agaa 834

<210> 194  
<211> 502  
<212> DNA  
<213> Homo Sapien

<400> 194  
cacttgacct gattcgccaa gcttggtacc gagctcggat ccctagtaac ggccgccagt 60  
gtgctggaat tcgccctttc gagcggccgc ccgggcagga cgctgaggcc tgggagcttc 120  
ttgactccac tacttaattc cgtttagtga gaaacctttc aattttcttt tattagaagg 180  
gccagcttac tgttgggtggc aaaattgcca acataagtta atagaaagtt ggccaatttc 240  
acccccattt ctgtggtttg ggctccacat tgcaatgttc aatgccacgt gctgctgaca 300  
ccgaccggag tacctcggcc gcgaccacgc taagggcgaa ttctgcagat atccatcaca 360

```

ctggcgccg ctcgagcatg catctagagg gcccaattcg ccctatagtg agtcgtatta 420
caattcactg gccgtcggtt tacaacgtcg tgactgggaa aaccttgccg ttacccaact 480
taatcgccct gcagcacatc cc 502

```

```

<210> 195
<211> 848
<212> DNA
<213> Homo Sapien

```

```

<220>
<221> misc_feature
<222> (1)...(848)
<223> n = A,T,C or G

```

```

<400> 195
gnnnnnnntt tnaaatgggc ctctnnagca tgetcgagcg gccgccatgt gatggatatc 60
tgcagaattc gcccttagcg tggtcgcggc cgaggtaact cggtcgggtg cagcagcacg 120
tggcattgaa cattgcaatg tggagcccaa accacagaaa atggggtgaa attggccaac 180
tttctattaa cttatgttgg caattttgcc accaacagta agctggccct tctaataaaa 240
gaaaattgaa aggttttctca ctaaaccggaa ttaagtagtg gagtcaagag actcccaggc 300
ctcagcgctc tgcgcgggcg gccgctcgaa agggcgaatt ccagcacact ggcggccgtt 360
actagtggat ccgagctcgg taccagcgtt ggcgtaatca tggtcatagc tgtttcctgt 420
gtgaaattgt tatccgctca caattccaca caacatacga gccggaagca taaagtgtaa 480
agcctggggg gcctaattag tgagctaact cacattaatt gcgttgcgct cactgcccg 540
tttccagtcg ggaaacctgt cgtgccagct gcattaatga atcggccaaac gcgcggggag 600
aggcgggttg cgtattgggc gctcttcgcg ttcctcgctc actgactcgc tgcgctcggt 660
cgttcggctg cggcgagcgg tatcagctca ctcaaaggcg gtaataccgg tattcacaga 720
attcagggga taacgcagga aagaacatgt gagcaaaaagg ncagccaaag gccaggaacc 780
cgtnaaaagg ccgcgttgct ggcgttnttc cataggctcc gccccttga cgagcatnac 840
aaaaatct 848

```

```

<210> 196
<211> 511
<212> DNA
<213> Homo Sapien

```

```

<220>
<221> misc_feature
<222> (1)...(511)
<223> n = A,T,C or G

```

```

<400> 196
canntatgac ctgattacgc caagcttggt accgagctcg gatccactag taacggccgc 60
cagtgtgctg gaattcgccc ttagcgtggt cgcggccgag gtactttttt tttttttttt 120
ttttttttt ttttagggtt ataaaagccc ttttataaag ccatttttaa acaaaacaaa 180
aaaaagttt acaaaagaaa aaaagatnca gaaaaagaat aacttgcttc atatgtccca 240
aaaagagaaa aaaataaagg ggacaatgcc aacatgctca acaataaagg cttctttttc 300
ttattttttt aatacaaaat ncaagcaaaag gatacacata cttaaaacag agctcaggag 360
canacacgca ntcttggaac cccttcaata aaancaaagc aggagtttgn tttttctttg 420
tctatgcana tacatacaga gactgggata tgtaaaaatt aagtatnaca aaagaccatt 480
acacgattct accaatgcatt gttgcattctn g 511

```

```

<210> 197
<211> 816
<212> DNA
<213> Homo Sapien

```

```

<220>
<221> misc_feature
<222> (1)...(816)
<223> n = A,T,C or G

```

```

<400> 197
gggcctctag agcatgctcg acggcccgcca tgtgatggat atctgcagaa ttccgcccttt 60
cgagcggcccg cccggggcagg tactaaggaa gttaaagttt gaatgtaacc actttatttta 120
aaagggttttt ttctttaatt taaatgaaat ggggttgaag tgaacatgat tttgttgacc 180
atgttcgtga attacagatg caacatgcat tggtagaatc gtgtgatggg cttttgtgat 240
acttaatttt tacatatccc agtctctgta tgtatctgca tagacaaaga aaaaacaaac 300
tcctgctttg cttttattga aggggttcca ggactgcgtg tctgctcctg agctctgttt 360
taagttatgtg tatcctttgc ttgtattttg tattaaaaaa ataagaaaaa gaagccttta 420
ttgttgagca tgttggcatt gtccccttta tttttttctc tttttgggac atatgaagca 480
agttattctt tttctgtatc tttttttctt ttgtaaactt tttttttgtt ttgtttaaaa 540
atggcctttt aaaagggcct ttataaccct aaaaaaaaaa aannnnnnna aaaaaaaaaa 600
gtcctcgccg cgcaccacgc taaggcgcaa ttccagcaca ctggcggncg ttactagtgg 660
atccgagctc ggaccaagct tggcgtaatc atggncatag ctgttcctgt gtgaaatgtt 720
atccgctcac aattcccaca catacaaccc ggagcataaa gtgtaaacct ggggtgccta 780
atgagtgagc tactcaataa ttgcgttgcg ctccang 816

```

```

<210> 198
<211> 498
<212> DNA
<213> Homo Sapien

```

```

<220>
<221> misc_feature
<222> (1)...(498)
<223> n = A,T,C or G

```

```

<400> 198
tgattcgcca agcttgggtac cgagctcgga tccactagta acggcccgcc agtgtgctgg 60
aattcgccct tcgagcggnc gncggggcag gtacaattca gagcagggtg ccatagaaac 120
aactaggntt gaaaaaactg taagacaatt cacagttgaa atcaaaccac cactgtgaat 180
gtgttaataa ctgtccatat aacaacactt taacattgat ctgtctaaat aaggctatga 240
ttcataagat gcatggattt ccaaagctgn ttaacattct tataaattaa ttcacaggat 300
tcaaatagtt gcttttttagc ttcaactggg tattagcaaa aatnatataa aatgatcccc 360
gtgcaagcac aaatttacct tccttctaaa taaaacatga cagattatat tacaacttga 420
tagcctctct tttaaaaagt ctgtgacatt attaaagagg tgacggaatg cttgntttgc 480
aaaccccaac acatcttt 498

```

```

<210> 199
<211> 837
<212> DNA
<213> Homo Sapien

```

```

<220>
<221> misc_feature
<222> (1)...(837)
<223> n = A,T,C or G

```

```

<400> 199
nnnnnnntnn cantgggcct ctagagctgc tcgacggccg ccatgtgatg gatatctgca 60
gaattcgccc ttagcctggt cgcggccgag gtaccttgag atctgagcaa ctgtgttaat 120
gaagtaatat caatggtcca cagtgaagaa tgtgttgagg tttgcaaac aagcattccg 180
tcacctcttt aataatgtca cagacttttt aaaagagagg ctatcaagtt gtaataaat 240
ctgtcatgtt ttatttagga aggaaggtaa atttgtgctt gcacggggat cattttgtat 300
tatttttget aatacccagt tgaagctaaa aagcaactat ttgaatcctg tgaattaatt 360
tataagaatg ttaaacagct ttggaaatac atgcatctta tgaatcatag ccttatttag 420
caagatcaat gttaaagtgt tgttatatgg caagtattta acacattcac agtggtttgt 480
tgatttcaac tgtgaattgt cttacagttt tttcaaacct agttgtttct atggacacct 540
gctctgaatt gtacctgccc gggcggccgc tcgaaggcg aattccagca cactggcggc 600
cgttactagt ggatccgagc tcggtaccaa gcttggcgta atcatggtca tagctgnttc 660
ctgtgtgaaa ttggtatccc gtcacaatt ccacacaaca tacgagccgg aagcataaag 720
tgtaaaagcct ggggtgccta atgagtgagc taactccatt aattgcgttg cgctcactgg 780
cccgctttnc agtcnggaaa cctgtctgcc anctgcatta atgaatcggc caccgccg 837

```

<210> 200  
<211> 506  
<212> DNA  
<213> Homo Sapien

<220>  
<221> misc\_feature  
<222> (1)...(506)  
<223> n = A,T,C or G

<400> 200  
nnnnttgacc tgattacgcc aagccttggtta ccgagctcgg atccactagt aacggccgcc 60  
agtgtgctgg aattcgccct tagcgtgggtc gcggccgagg tactgcatcc ataatttatc 120  
gccatgtgca acagctttgc gttttctaag gcacaatttt taatgaaatg atgtgtagat 180  
ttcaatctaa taacagctca tccaaatgac aaatatgggtc gaaatccctc cagtggctga 240  
ggaaatttct gcacctatat ggaacccaca tgcaaagaac ccacttagca tgtaataaat 300  
aatcgctagc catactcaat aagacacgga aaaattattg cttacataac agaaaaacat 360  
ctacttgacc cctttttatg actacatcaa tctattagga gtgtatccat agtctacatt 420  
cacaaaatgt catcttgact tatttgccat tgatttaagg cagaataaat agtccccctt 480  
tccccagctt taacaacaaa aaacaa 506

<210> 201  
<211> 864  
<212> DNA  
<213> Homo Sapien

<220>  
<221> misc\_feature  
<222> (1)...(864)  
<223> n = A,T,C or G

<400> 201  
ccnntanagc atgctcgacg gccgccccgg caggtagcctt ggaagttagt tcattaatat 60  
aggctggttc atcaaatataa gcaaaacctt gcaatatcag ctagatttac actccgggac 120  
gttgcccaaa ggttaggaaga aagcaggggg aaatatattc gtcattcattt ccaaagtcatt 180  
tatcaaaatc tgtgaggaag ttaaatcttc caaagagtca atgtcagaca tcaggcctct 240  
gttgccctgct tctctcgagg cactagatta ggagtcttca ataagagact taacatgagg 300  
tatatggaag atgaggcacc gagataagtt catcattagg tgtgagcact gctcaccctt 360  
gctggcaagt tctccttaag ggcctgaagc acaggtgtcc aaagaaaagc gttaagtcca 420  
tcttaataga atctatgtgg tatatgatgt ggtcagcccc tggctctgtga tcagcaagaa 480  
cctacagcac agattatgcc ctgcccactt caatgaatac ctactctcct ncattctcca 540  
tcactttttt gctatcaaga ctccggacct tgcccatgga gaagttaga gaggaactct 600  
tgtggagagc tgggttaattt tctgccctgt gcgacaagtt tcaacttggc caagaaangg 660  
agtcaagtta ttaaaaagca tcacaaatgta gaatcttcca ggctggggtt tttggntttt 720  
tnggtggttn aanactgggg gnaaaagggg ggacctattt aaattccngg ccttttaaat 780  
caaatgggcc aaaattaagt tcaaggaatg gaccattttt nggggnaaat ggttngaacc 840  
ttntnnggan ttccnccctt ccct 864

<210> 202  
<211> 505  
<212> DNA  
<213> Homo Sapien

<220>  
<221> misc\_feature  
<222> (1)...(505)  
<223> n = A,T,C or G

<400> 202  
gnntnanacn ntnactaat antganttag tnccgactcg atccctctna ctncantnan 60  
ancgntngaa ttgcccttnn tagcggccnt ccngncaggt acaaccagtt tggaaaacag 120

tntcacagtt	tttttaaaaa	ttacatatat	aaccancaac	tgaccagcc	atttcactcc	180
taggtattta	cccaagatna	actgaagtgt	agatacaagc	anagacttgn	gcacaagtgt	240
tcatggtaag	ctttactngc	antagctcca	aactanggac	aactcaaata	gccaacangg	300
aaatggacaa	attatgttac	tttcatacag	tggaatattc	tcttgtgata	aaaataantg	360
aacanttgat	acatggatga	atctcaaaat	aattatgctg	agtaaaagaa	gccagacaaa	420
atgtacagtg	catacagcta	ttcatgtggg	tgccagctcc	atcccccagt	gacctcttca	480
tacggncaga	gggtggcatg	gcanc				505

&lt;210&gt; 203

&lt;211&gt; 819

&lt;212&gt; DNA

&lt;213&gt; Homo Sapien

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)... (819)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 203

ggcctcngca	gcattgctga	ncggccgcca	tgtgatggat	atctgcagaa	ttcgccctta	60
gcgtgggtcgc	ggccgaggta	cgccgggagag	caggaccgga	gcgcgggcca	agctggagat	120
ggatgatgct	gaccttgagg	aaagaaacta	tgacaacatg	ctgaaaaatgc	tgtcagatct	180
gaataaggac	ttggaaaagc	tattagaaga	gatggagaaa	atctcagtgc	aggcgacctg	240
gatggcctat	gacatgggtg	tgatgcgcac	caaccctacg	ctggccgatt	ccatgcgtcg	300
gctggaggat	gccttcgtca	actgcaagga	ggagatggag	aagaactggc	aagagctgct	360
gcatgagacc	aagcaaaggc	tgtaggcccc	actggccccc	cacagctgcc	atgccaccct	420
ctgcccgtat	gaagagggtca	ctgggggatg	gagctggcac	ccacatgaat	agctgtatgc	480
actgtacatt	ttgtctggct	tcttttactc	agcataatta	ttttgagatt	catccatgta	540
tcaattgttc	acttattttt	atcacaagag	aattattccac	tgtatgaaag	taacataatt	600
tgctccatttc	cctgttggct	atttgagtgt	tccctagttt	ggagctattg	cgagtaaagc	660
taccatgaac	atttgtgcac	aagtctttgc	ttgtatctac	acttcagttt	atcttgggta	720
aatacctang	agtgaatgg	cttgggtcaa	tntgttggtt	ggatatgtaa	ttttttaaaa	780
aaaactngna	tactgttttc	caaactgggt	tgccctct			819

&lt;210&gt; 204

&lt;211&gt; 840

&lt;212&gt; DNA

&lt;213&gt; Homo Sapien

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)... (840)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 204

gnnnnntttt	nnctnntgga	accctgtttg	nnaagctgct	cgacggccgc	catgtgatgg	60
atatctgcag	aattcgccct	tagcgtggtc	gcggccgagg	tacctnaga	tctgagcaac	120
tgtgttaatg	aagtaatagc	aatgggtccac	agtgaagat	gtgttggggg	ttgcaaaaaca	180
agcattccgt	cacctcttta	ataatgtcac	agactttttt	aaaagagagg	ctatcaagtt	240
gtaataataat	ctgtcatggt	ttatttagga	aggaaggtaa	atttgtgctt	gcacggggat	300
catttttgat	tatttttgct	aatacccagt	tgaagctaaa	aagcaactat	ttgaatcctg	360
tgaattaatt	tataagaatg	ttaaacagct	ttggaaatac	atgcatctta	tgaatcatag	420
ccttatttag	caagatcaat	gttaaagtgt	tggttatatg	caagtattta	acacattcac	480
agtgtttggt	tgatttcaac	tgtgaattgt	cttacagttt	tttcaaacct	agttgtttct	540
atggacacct	gctctgaatt	gtaccctca	gtcaccagca	aaagcatttc	cacctcttcc	600
aacccccaat	cagaccactg	cattcagtgg	tattggagga	ctttcatcac	agcttccagt	660
aggtgggtct	tggcacaggc	agnctgactg	gtatangaac	tggtgctctt	ggactccttg	720
cagtgaataa	cgaccctttt	gtacctgcc	ggcgccgcgc	taaggcgcaa	ttccacacac	780
tggccggccg	ttactagtng	gacccnaact	cgggtccaaan	cttggcggtat	tcattggtent	840

&lt;210&gt; 205

&lt;211&gt; 497

<212> DNA  
<213> Homo Sapien

<220>  
<221> misc\_feature  
<222> (1)...(497)  
<223> n = A,T,C or G

<400> 205  
nnnnttgacc tgattacgcc aagcttggtg ccgagctcgg atccactagt aacggccgcc 60  
agtgtgctgg aattcgccct tagcgtgggc gcggccgagg tacatttact ataaaagctg 120  
ttgcatttta gacaacttgt tgtttttatt ttttactggt tctcagaggc attttagaat 180  
aaatacttta aatgaaaagt agtataaccg atatagaaca ctggcccacc cagagcagta 240  
acatcttttg gacggactca catatgaggt ggatcatttc agtttggtta atcttact 300  
gtgtatagat aactataata tgtattgcat taatcacact acatagaaag gaaatgtcat 360  
ggaagtgcgc tagtgaaaaa caaaaagtta cccattatgt ttattaaaga gtagggacta 420  
gcttttggag tatgagaaaa aaaatcagat atacttcttc aggaacaata aatcactcac 480  
ttgcctcacc tgtttttt 497

<210> 206  
<211> 820  
<212> DNA  
<213> Homo Sapien

<220>  
<221> misc\_feature  
<222> (1)...(820)  
<223> n = A,T,C or G

<400> 206  
gggcctntag aagcatgctc gagcgccgcg cagtgtgatg gatatctgca gaattcgccc 60  
tttcgagcgg ccgcccgggc aggtacatgt attgaagcta gaatcgagtc aagaaaaata 120  
aagccccatt ctccaactgc aaaatgtgct tttccataat gaacactagt caccagcaca 180  
gaataatctc caacattttc taaattctaa ttgccaaactg ttctatttta tatttgattt 240  
atatttcatt tggagtctgt tacatggcag cttaggcaga ctagatcttg ttttttccaa 300  
tgcagcataa tgagtatgat ctatttcttt tcaaataatc tttgagatcc caggaaaaaa 360  
aatgctctgc tccattgagc tataatgtaa atgtgtttgt ttaaaaaaca ggtgaggcaa 420  
gtgagtgtat tattgttctc gaggaagtat atctgatttt ttttctcata ctccaaaagc 480  
tagtccctac tctttaataa aaataatggg taactttttg tttttcacta gcgaacttcc 540  
atgacatttc ctttctatgt agtgtgatta atgcaatata tattatagtt atctatacac 600  
agtgtgaagt ttaacaaact gaaatgatcc acctcatatg tgagtccgtc caaaagatgt 660  
tactgtctcg ggtgggcccag tgttctatat cgggtatact aactttcatt taaagtattt 720  
attctaaaat gcctctgaga aacagtaaaa ataaaaacca caagttgcta aaatgcaaca 780  
gcttttatag taaatgtcct tgggcccgcg ccacgcttag 820

<210> 207  
<211> 496  
<212> DNA  
<213> Homo Sapien

<220>  
<221> misc\_feature  
<222> (1)...(496)  
<223> n = A,T,C or G

<400> 207  
cnnttgacct gattacgcca agcttggtac cgagctcgga tccactagta acggccgcca 60  
gtgtgctgga attcgccctt agcgtgggtc gcggccgagg tacaaaaagc aaaatcagag 120  
ttcaatttca gcagcaagac ttatcaagaa tttaatcact atttgacatc aatgggttgg 180  
tgctctgga cgtccaaacc ctttgggaaa ggaatatata ttgaccctga aatcctagaa 240  
aaaactggag tggctgaata taaaaacagt ttaaatgtag tccatcatcc ttctttcttg 300  
agttacgctg tttccttttt gctacaggaa agcccagaag aaaggacagt aaatgtgagc 360



tctattcngg gaaagaaatg gagctggtat ttggactatt tattttcaca ngggttacaa 420  
ggcttgaaac tttttataag aagtagtggg catcattctt ncattcccag agcagaaggc 480  
ataaactgca caatca 496

<210> 208  
<211> 810  
<212> DNA  
<213> Homo Sapien

<220>  
<221> misc\_feature  
<222> (1)...(810)  
<223> n = A,T,C or G

<400> 208  
gcatgctcga cggcccgcca gtgtgatgga tatctgcaga aattcgccct ttcgagcggc 60  
cgcccgggga ggtactcctt gaggatggca gtctgtcagt gaaatgaaaa tgggaactca 120  
agatgagcca ctttgcctta gcaatgagga gtgagtttag tccagtgtgt tcagtttatg 180  
tcaacattca tttaatattg attgttgagc tttatgccct ctgctctggg aatggaagaa 240  
tgatgaacac tacttcttat aaaaagtttc aagccttgta acccctgtga aaataaatag 300  
tccaaatacc agctccattt ctttccccga atagagctca catttactgt cctttcttct 360  
gggctttcct gttagcaaaaa ggaaacagcg taactcaaga aagaaggatg atggactaca 420  
tttaaactgt ttttatattc agccactcca gtttttctta ggatttcagg gtcaatatat 480  
attcctttcc caaagggttt ggacgtccac aggcaaccaa ccattgatgt caaatagtga 540  
ttaaattctt gataagtctt gctgctgaaa ttgaactctg attttgcctt ttgtacctcg 600  
gccgcgacca cgctaaggcg gaattccagc acactggcgg ccggtactag tggatccgag 660  
ctcgggtccaa gcttggcgta atcatgggca tagctgtttc ctggtgtgaa attgntatcc 720  
gctcacaatt ccacacaaca tacgaaccgg aagcattaag tgtaaacctt ggggtgccta 780  
atgagtgagc taacttacat taattgcgnt 810

<210> 209  
<211> 495  
<212> DNA  
<213> Homo Sapien

<220>  
<221> misc\_feature  
<222> (1)...(495)  
<223> n = A,T,C or G

<400> 209  
cnnttgacct gattacgcca agcttggtac cgagctcgga tccctagtaa cggccgccag 60  
tgtgctggaa ttcgccctta gcgtggtcgc ggccgaggta caactctcca gggcacaata 120  
cgtttacagc tgcctttcct tcacatactt ttctaattca gaactactca caattctaag 180  
caaattccca ttcacgaagt ctgtccataa tgcgaccttc tcttttttta acatatacat 240  
cttaaaaaaac aaatatataa aaaattctta ttttgcctga atgctttcaa tttttcacat 300  
tttacatgat catcacattt atttcttata ttgaaaggca tggtttctgt tgacatgtcg 360  
tgcaaaagcca aaaaaaaaaa anaaaaaaaa aagggtcgga ttgcttttca attggtctaa 420  
cacttttctt tgtctaggct ttggatttta aagttcatga cagccccacc accagtagaa 480  
accccaaggc ttgca 495

<210> 210  
<211> 820  
<212> DNA  
<213> Homo Sapien

<220>  
<221> misc\_feature  
<222> (1)...(820)  
<223> n = A,T,C or G

<400> 210

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gggcctcaga gctgctcgan cggccgccat gtgatggata tctgcagaat tcgccctttc 60
gagcggccgc ccgggcaggt acccacgttt tgctccacac tccttgaccg caggggctcg 120
gacacaaaac cctgtcacca ggagagtcag tcagcactac ttgggagggc taaagggaaa 180
tttgaaata aaattccaaa gtttgagta aaaaaattca agtggtgatt ttatattctt 240
tcctttctg acacagccta aagcgtaggg ggaacatgtg tttatctgtg ggagataaac 300
aagatggagt cccaaagact ttaacaaaat atttttttaa aaatccacta gaatagaaaa 360
tacattattt agatatactt tatgctgaga gtgagtatat atgcttgctc tatttaaaact 420
tgtgagaaaa agtggatatcc cttgatacat ttagaaaatat gggggctatc ttgtttcatt 480
gtgggggtgg ggcagaagga gaataaatgc aggatgacct tgttgaagga atcttancat 540
ggccaacagg ggacgttttc agtcgattac caggaaatgc aagccttggg gtttctactg 600
gtgggtgggc tgtcatgaac tttaaaatcc aaagcctaga caaggaaaag tgttagacca 660
attgaaaagc aatccagccc tttttttttt nnnntttttt tttggctttg cacgacatgt 720
caacagaaac catgcctttc aatntaagga aataaatgtg atgatcatgt aaaatgtgaa 780
aaattgaaag cattncacca aataaggaat tttttatttn 820

```

&lt;210&gt; 211

&lt;211&gt; 499

&lt;212&gt; DNA

&lt;213&gt; Homo Sapien

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(499)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 211

```

canttgactg attacgccaa gcttggtacc gagctcggat ccactagtaa cggccgcccag 60
tgtgctggaa ttcgccctta gcgtggctgc gggccgaggt acaactctcc agggcacaaat 120
acgttttacag ctgccttttc ttcacatact tttctaattc agaactactc acaattctaa 180
gcaaatcccc attcacgaag tctgtccata atgcgacctt ctcttttttt aacatataca 240
tcttaaaaaa caaatatata aaaaattctt attttgctgg aatgcttttc atttttcaca 300
ttttacatga tcatcacatt tatttcttat attgaaagge atggtttctg ttgacatgtc 360
gtgcaaaagg aaaaaaaa aaaaaaaa aagggtcggg ttgcttttca atngggctca 420
acacttttcc ttgtctagge tttggatttt aaagtccatg acagccccac caccagtaga 480
aaccccaagg cttgcattt 499

```

&lt;210&gt; 212

&lt;211&gt; 821

&lt;212&gt; DNA

&lt;213&gt; Homo Sapien

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(821)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 212

```

gggcccctan agcatgctcg agcggccgcc atgtgatgga tatctgcaga attcgccttt 60
tcgagcggcc gcccgggcag gtacccacgt tttgctccac actccttgac cgcaggggct 120
cggacacaaa cccctgtcac caggagagtc agtcagcact acttgggagg gctaaaggga 180
aatgtggaaa taaaattcca aagtttgagg taaaaaatt caagtgttga ttttatattc 240
tttccctttc tgacacagcc taaagcgtag ggggaacatg tgtttatctg tgggagataa 300
acaagatgga gtcccaaaga ctttaacaaa atattttttt aaaaatccac tagaatagaa 360
aatacattat ttagatatac tttatgctga gagtgaat atatgcttgt cctattttaa 420
cttgtgagaa aaagtggat cccttgatac atttagaaat atgggggcta tcttgtttca 480
ttgtgggggt ggggcagaag gagaataaat gcaggatgac cctgttgaag gaatcttagc 540
atggccaaca ggggacgttt ccagtcgatt accaggaaat gcaagccttg gggtttctac 600
tgggtggggg gctgtcatga actttaaaat ccaaagccta gacaaggaaa agtggttagac 660
caattgaaaa gcaatccagc cctttttttt tttttttttt ttggctttgc acgacattgt 720
taacagaaac catgcctttc aatattagaa ataaatgtga tgatcatgtt aaatgtgaaa 780
aattggaagc cttcagcaaa ataagaattt ttattntttt n 821

```

<210> 213  
 <211> 497  
 <212> DNA  
 <213> Homo Sapien

<400> 213  
 acttgacctg attacgccaa gcttggtacc gagctcggat ccactagtaa cggccgccag 60  
 tgtgctggaa ttgcgccctta gcgtggctcg gcccgaggta caaaacaata gtctaaacta 120  
 acacgaactg ttacctggtc tattaagga tacacggtat ccactaaaca gacagatcct 180  
 tatttccttg cttgatgttg caaagccctt ggcaaccagg ggcaaaggte actgggggtt 240  
 gactaaactg ggctgagtg cagctatgac tgcctctcag atttttgagt tgttttgaa 300  
 attaaaagct tctaaaagtt gcatcaacat cctcctaagc ccccatagga ttgtaacacc 360  
 accacaaaag gccaccaaca ctttttaaac aaagtgaata ctgtctgaca ccaatcatct 420  
 tgaaaactcc atggcaagtg cattagctat gatttcatca cttacaggta gagaagctta 480  
 ctgtctactg gtgtggg 497

<210> 214  
 <211> 817  
 <212> DNA  
 <213> Homo Sapien

<220>  
 <221> misc\_feature  
 <222> (1)... (817)  
 <223> n = A,T,C or G

<400> 214  
 ggccttanag ctgctcgcgc gccgccatgt gatggatata tgcagaatc gccctttcga 60  
 gggccgcccc gggcaggtag tctcagtcac atgcagaaat actttttttt taattaatag 120  
 ttacaggctt gttggtccag tgggatttgg gtagggggag aaagatacct tctaaaatgg 180  
 atcaatagaa ccaaaaataat acagcatgtt ctataaccac aaggaaatca aatgatcctg 240  
 tcatgattcc agttagtcac aaccatgtta gcagtgtctaa atgcatttta gaaatggtga 300  
 cttctgtggt tttcctagca tttgtctcta acaaatgggtg aaataattac tcatggccct 360  
 ctctgccatt gtctttcatt tttcacagt gaaattagac ccctttactt caccattctg 420  
 ccactgcata ttaagtataa agaaaatagc aagagtgtcc acaccagtag acagtaagct 480  
 tctctacctg taagtgtatg aatcatagct aatgcacttg ccatggagtt ttcaagatga 540  
 ttggtgtcag acagttttca cttgttttaa aaagtgttgg tggccttttg tgggtggtgt 600  
 acaatcctat gggggccttan gaggatgttg atgcaacttt tagaagcttt taatttcaaa 660  
 aacaactcaa aaatctgaag gacagtcata gctgccactc agccccagtt agtcaaaccc 720  
 cagtgaactt tgccccgtgt tgccaagggc tttgcaacat caagcangga aataaggatc 780  
 tgnctgttag tgggataccg ggtatccttt aatagac 817

<210> 215  
 <211> 495  
 <212> DNA  
 <213> Homo Sapien

<220>  
 <221> misc\_feature  
 <222> (1)... (495)  
 <223> n = A,T,C or G

<400> 215  
 acttgacctg attacgccaa gcttggtacc gagctcggat ccactagtaa cggccgccag 60  
 tgtgctggaa ttgcgccctta gcgtggctcg gcccgaggta catgctgact tcttggtatc 120  
 ttttaaggcc taattttccc ttccttgaga ttactgtagt gtgttccagc taatttctat 180  
 ttggaacga gttggaacag ctgaaaacta ggtattattg aaggcaaagc agcctcacgt 240  
 cagtttttta tcagctcatt tgggaagttt tttttttttt ttttttaatt aattagaaag 300  
 taggctgggc acggtggctc atgcctataa tcccagcact tggggaggcc gaggatctcc 360  
 tctctggtgg atcaactgag ggcaggagtt aagagaccat cctggccaac atgatgaaac 420  
 cctgtctcta ctaaaaatac aaaaagtagc tggcggtggt ggcatactct tacaatccca 480  
 gctacttggg aggcn 495

<210> 216  
<211> 823  
<212> DNA  
<213> Homo Sapien

<220>  
<221> misc\_feature  
<222> (1)... (823)  
<223> n = A,T,C or G

<400> 216  
gggcctcaga gcatgctcgn cggccgccag tgtgatggat atctgcagaa ttgcgcccttt 60  
cgagcggccg cccgggcagg tacttttttt tcttttttta catctgattt taatgcttcg 120  
ttaacttcaa aaggaaactgg tagagttcag aaggtgagct gttgtttttc taaacctctt 180  
cccaggaagg ggacattgac acttgaattt ttgtcacctt ttccctcatt agaaggaaag 240  
tagaaagcct tactgttaga tttttaaaaa aaaatccatc tcaccccata ttggtcttaa 300  
ataagtatag actaattaac ctaagctacc ttttaacaac tagaatttag atgggttcac 360  
atatgtgaga aaaacctgaa tataggacag gggtcctact tttttcccca cctctgtcgc 420  
ccaggctaga gtatagtggg gtgatcttgg cccactgcaa cctctgcttc ctaggttcaa 480  
gtgattctcc tgcctcagcc tcccaagtag ctgggattgt aagagtatgc caccacgccc 540  
agctactttt tgtattttta gtagagacag ggtttcatca tgttgccag gatggtctct 600  
taactcctgc cctcaagtga tccaccagag aggagatcct cggcctnccc aagtgtcggg 660  
attataggca tgagccaccc gtgcccagcc tactttctaa ttaattaaaa aaaaaaaaaa 720  
aaaaacttnc caaatgagct gatnaaaac tgacgtgang ctgctttgcc ttcaataata 780  
cctagttttc actggtccaa ctggtttcca aatagaaatt acg 823

<210> 217  
<211> 827  
<212> DNA  
<213> Homo Sapien

<220>  
<221> misc\_feature  
<222> (1)... (827)  
<223> n = A,T,C or G

<400> 217  
nnnnnnnggc ctntnnagca tgctcgacgg cggccatgtg atggatatct gcagaattcg 60  
cccttttcgag cggccgcccg ggcagggtact gtatcatttg cagatgtgac gtcaccgaca 120  
accagagtga agtggcggac aaaactgagg attacctgtg gctgaagttg aaccaagtgt 180  
gttttgacga cgatggcacc agctccccac aagacaggct cactctctca cagttccaga 240  
agcagttgtt ggaagactat ggcgagtcac actttacggg gaaccagcaa cccttcctct 300  
acttccaagt cctgttctcg acagcgcagt ttgaagcagc agttgccttt cttttccgca 360  
tgagcgggt gcgctgccat gctgtccatg tagcactggg gctgtttgag ctgaagctgc 420  
ttttaagtc ctctggacag agtgctcagc tctcagcca cgagcctggg gaccctcctt 480  
gcttgccggc gctgaacttc gtgcggctcc tcatgctgta cctcggccgc gaccacgcta 540  
aggcggaatt ccagcacact ggcggccggt actagtggat ccgagctcgg taccagctt 600  
ggcgtaatca tgggtcatagc tgtttcctgt gtgaaattgt tatccgctca caattccaca 660  
caacatacga gccggaagca taaagtgtaa agcctggggg gcctaagtga tgagctaact 720  
cacattaatt gcgttcgct cactgccgcg ttttcaatcg ggaaacctgt cgtgccagct 780  
gcattaatga atcggnaaac gcccgggan aagcggtttg cgtattt 827

<210> 218  
<211> 498  
<212> DNA  
<213> Homo Sapien

<400> 218  
cacttgacct gattacgcca agcttggtac cgagctcgga tccactagta acggccgcca 60  
gtgtgctgga attcgcctt tcgagcggcc gcccgggcag gtactttttt tttttttttt 120  
taattccac aacaacccat ttcaaatga gaaaactagg ttgagtgaact tgtccacagt 180

```

tccaaagcta ataaaaatga tgaggcatat ttctcttctg ggcccactgt attcagttct 240
ttgttcttta cactgagtg cgaaaaaaaaa aaatcagact attttgattc tagaaaagtga 300
gataattgaa aatgttaaca tatttctcca aaactgatca gactgtggag tctgtcactt 360
ttttggtata ataaaggagt ttgaagaaac aaatgacatc attcctgatg atggtagccc 420
actccaacaa aggcgtatat atgtaggcaa gtttgaagat atctataaga gcattaaaaa 480
gcaagtgcac cattgtgg

```

```

<210> 219
<211> 818
<212> DNA
<213> Homo Sapien

```

```

<220>
<221> misc_feature
<222> (1)...(818)
<223> n = A,T,C or G

```

```

<400> 219
ggcctntnga gctgctcgac ggccgccatg tgatggatat ctgcagaatt cgcccttagc 60
gtggcgcggc cgaggtacct agaaaacaga aacttgagta gacatggtaa tgaccagaaa 120
aggctatctt tatacatttc ttttgctacg cttcaaattc atgtcaccta aaagttgtga 180
agtgcacaaa acaaatctac ttaactgaaa attattttca atgaatggga tgtttagaac 240
tctgtgaggg tttttaaggt cttttcgat agcaaattct aatgaggctt ttttaagttg 300
gcaattttaa ctcatacaag aaataaaaaac tcaccagtgt ggctgggcag aatataata 360
ttttctcaaa tattgtttgt ttgttttttc cctgcactgt atccatggtc ccatgatgaa 420
actgttatat tgctgatata tttattggaa tatgtgggac aacttccttt cactcaaca 480
tatggattgg tagtttaaaa taattccttt ctattaagca aatgtgtggc taaggcacat 540
ttaaatagcc cattaaacca atgagatgac aatgtgttac cctcagagaa agcttaattt 600
ttggagtaat caattacaca tatcacagaa tgtctcatga gaacattttt ggctaggtct 660
accaatttat catgcaataa attatagatt ttcatgtgag gcaaagatgc tgattcatca 720
ttagtaacat ggtcacaaat aatcatttat tttattttgg taacatctgt ctttcctgtg 780
gggaaactta ctatatgctc tacgttaatt aaattaaa 818

```

```

<210> 220
<211> 497
<212> DNA
<213> Homo Sapien

```

```

<400> 220
cacttgacct gattacgcca agcttggtag cgagctcgga tccactagta acggccgcca 60
gtgtgctgga attcgccctt tcgagcggcc gcccgggcag gtacagccat gaaattgttg 120
ctactcatag aaagtcttag tatagtttgg tttaaacatt taaaattgc aaataaatat 180
agatagataa tatcatgatg agaaggtcac gggaaacctg gagatttcag ggtgctcttt 240
cataattgga gcgagaatca tgtaacagtt aagaaactaa actcttgagc cttcatagtc 300
tttgctttct cccatttat ttatctgata ttatataccc tctttaatta tagactggac 360
tgaaatattt tatttttgtt ttattataaa aaatcctact cgtctttaac atgttctctt 420
aaagagtgtt tcatatataa atactttccc cccaaaatat aaagaggcta accactatag 480
tattgaaaga ttgaaag
497

```

```

<210> 221
<211> 831
<212> DNA
<213> Homo Sapien

```

```

<220>
<221> misc_feature
<222> (1)...(831)
<223> n = A,T,C or G

```

```

<400> 221
cnnnannggg cctntanagc atgctcgacg gccgccatgt gatggatata tgcagaattc 60
gcccttagcg tggtcgcggc cgaggtacaa tgaaagtatg agctacctct ctgaagtctg 120

```

```

gaaaccttga gagtattaag gttacatgca taaaatcttt aaaatggaag tgtcattaca 180
tggtaaacca attcaaatta aaaataatct catgctgtga aagcaaaaata tataactggt 240
ttaccatttc ataggtaatt gcacgtcttt gttacatctc aatagtttct ttgtatttgt 300
tgcaatcacc ctcttctctc tcaacactct tttctacctc catgtaactg ctgttgtagaa 360
ttctttataa tattctcacc aatgtttaaa gatgaagttt aaagtgttta caaaggaagc 420
attttaactc ctcttagaac tgagccttta aatttggttt tagacaccct aggtctttct 480
ttcaatcttt caatactata gtggttagcc tctttatatt ttggggggaa agtatttata 540
tatgaacac tctttaagag aacatgttaa agacgagtag gattttttat aataaaaaca 600
aaataaaaata ttcagtgcca gtctataatt aaagagggtta tataatatca gataaataaa 660
tggggagaaa gcaaagacta tgaaggctca agagtttagt ttcttaactg gtacatgatt 720
ctcgctncaa ttatgaaaga gcaccctgaa atctncangc ttncctgac cttctcatca 780
tgatattatc tatctatatt tattgcaatt ttaaaatggt taaaccaaac n 831

```

<210> 222  
 <211> 497  
 <212> DNA  
 <213> Homo Sapien

```

<400> 222
cacttgacct gattacgcca agcttggtac cgagctcgga tccactagta acggccgcca 60
gtgtgctgga attcgccctt agcgtggctg cggccgaggt actctttctc tcccctcctc 120
tgaatttaatt tctttcaact tgcaatttgc aaggattaca catttcaactg tgatgtatat 180
tgtgttgcaa aaaaaaagtg tctttgttta aaattacttg gtttgatgaat ccatcttgct 240
ttttcccat tggaactagt cattaaccca tctctgaact ggtagaaaaa catctgaaga 300
gctagtctat cggcatctga caggtgaatt ggatggttct cagaaccatt tcacccagac 360
agcctgtttc catcctgttt aataaattag tttgggttct ctacatgcat aacaaaccct 420
gtcccaatct gtcacataaa agtctgtgac ttgaagttta gtcagcacc cccacaaact 480
ttatttttct atgtgtt 497

```

<210> 223  
 <211> 822  
 <212> DNA  
 <213> Homo Sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(822)  
 <223> n = A,T,C or G

```

<400> 223
gggcctnaga gctgctcgnc ggccgcatg tgatggatat ctgcagaatt cgcccttcga 60
gcgccgccc ggcaggtac tttattttca aaaaactcat atgtcgcaaa aaacacatag 120
aaaaataaag tttggtggg gtgctgacta aacttcaagt cacagacttt tatgtgacag 180
attggagcag gtttggttat gcatgtagag aaccctaaact aatttattaa acaggatgga 240
aacaggctgt ctgggtgaaa tgggtctgag aaccatccaa ttcacctgtc agatgccgat 300
agactagctc ttcagatgtt tttctaccag ttcagagatg ggttaatgac tagttccaat 360
ggggaaaaag caagatggat tcacaaacca agtaatttta aacaaagaca cttttttttt 420
gcaacacaat atacatcaca gtgaaatgtg taatccttgc aaattgcaag ttgaaagaat 480
taaattcaga ggaggggaga gaaagagtac ctgcggcgcg accacgctaa gggcgaattc 540
cagcacactg gcggccgtta ctagtggatc cgagctcggt accaagcttg gcgtaatcat 600
ggtcataagct gtttcctgtg tgaaattgtt atccgctcac aattccacac aacatacgag 660
ccggaagcat aaagtgtaaa gcctggggtg cctaagtgtg gagtaactc acattaattg 720
cgttgcgctc actggcgcgt tttcagtcng gaaacctgtc gtgccagctg cattaatgaa 780
tcggccaacg cgccgggaga ngcngnttgc gtattgggcc cn 822

```

<210> 224  
 <211> 494  
 <212> DNA  
 <213> Homo Sapien

<220>  
 <221> misc\_feature

&lt;222&gt; (1)...(494)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 224

cncttgacnt	gattacgcca	agcttggtac	cgagctcgga	tccctagtaa	cgcccgccag	60
tgtgctggaa	ttcgccctta	gcgtgggtcg	ggccgaggta	cttttttttt	tttttttaac	120
caactcaata	tgtgtttgat	gtagtggaat	tgataaaacc	cgaagctttt	ccctgtaaat	180
cttacatctt	tgcctttaaa	gaatgggtta	caaccatcac	tagatcacag	tagtgccctaa	240
tgaaggttga	gaaccgtagg	agaggctctc	atgctgtaaa	taatgttgca	ggctaataac	300
ctttcatcac	ttcctttgtg	cgcttctctg	cttaagtgc	aagtagcaac	atggcttggg	360
tccctgtgc	agcatcagct	tatgctgcca	caagtcagtt	tgaccctag	gtgcccagga	420
gctagtatcc	ttagatcttt	ctatcgctaa	cttaattctc	ttcggtattt	atctgaccct	480
ctaactccat	gtct					494

&lt;210&gt; 225

&lt;211&gt; 822

&lt;212&gt; DNA

&lt;213&gt; Homo Sapien

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(822)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 225

gggccttnga	gctgctcgn	ggccgccagt	gtgatggata	tctgcagaat	tgcctctcg	60
agcgcccgcc	cgggcaggta	ctttaatttt	gcttggtcaa	atgatctaca	cttacatttt	120
gcaaatcttt	ttttttaaat	tttttaaatt	ttatatcttt	tttccagcca	actcaaggcc	180
aaaaaaaaat	tcttaataata	gttattatgc	gaggggaggg	gaagcaaaag	agcacaggta	240
gtccacagaa	taagacacaa	gaaacctcaa	gctgtgaggt	caatttgtaa	ttaaaagaat	300
actaagatta	gatgaacaca	acactcagaa	atactctagg	agagctgaaa	aagaagggaac	360
agatgttaac	aaaacaaatt	aaggctgctg	gggaacctga	gtccatgtta	agcttgggtt	420
gactgtaaag	aatttttttt	tttaatgcaa	gttagacatg	gagttagagg	gtcagataaa	480
taacgaagag	aattaagtta	gcgatagaaa	gatctaagga	tactagctcc	tgggcacctta	540
gggtgcaaac	tgacttggtg	cagcataaag	tgatgctgca	caggggacct	aagccatggt	600
gctacttgct	acttaaggca	ggaagcgcac	aaagggaagt	atgaaagggt	attagcctgc	660
acattattta	cagcatgaga	gcctctccta	cggttctcaa	ccttcattag	gcctactgtg	720
atctantgat	ggntgtaccc	attctttaaa	ggcaaatgat	taaggattta	cagggaagaa	780
cttcgggttt	tatcaattca	ctatcatcaa	acacatattg	ng		822

&lt;210&gt; 226

&lt;211&gt; 498

&lt;212&gt; DNA

&lt;213&gt; Homo Sapien

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(498)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 226

anntaaacta	tgacctgatt	acgccaaact	ggtaccgagc	tcggatccac	tagtaacggc	60
cgccagtgtg	ctggaattcg	ccctttcgag	cgcccgcccc	ggcagggtacc	ctctcatata	120
tgcaaacaaa	tcgagactag	gcctcaggca	gagactaaag	gacatctctt	ggggtgtcct	180
gaagtgtatt	ggacccttga	gggcagacac	ctaagtagga	atcccagtg	gaagcaaaag	240
cataaggaag	cccaggattc	cttgtgatca	ggaagtgggc	caggaaggtc	tggtccagct	300
cacatctnat	ctgcatgcat	cacggaccgg	atgcgccac	tgggtcttgg	cttcctctcc	360
atcttctcaa	gcagtgtcct	tgttgagcca	tttgcatcct	tggtccagg	tggtccctc	420
agtctggact	ctaccacttg	ggtctccaga	ttttctgtta	cgctcttg	ggtcaggata	480
tttctggaag	tcactccg					498

&lt;210&gt; 227

<211> 815  
<212> DNA  
<213> Homo Sapien  
  
<220>  
<221> misc\_feature  
<222> (1)...(815)  
<223> n = A,T,C or G

<400> 227  
gggcctctna agctgctcga cggccgccat gtgatggata tctgcagaat tcgcccttag 60  
cgtggctcgcg gccgaggtac attgatgggc tggagagcag ggtggcagcc tgttctgcac 120  
agaaccaaga attacagaaa aaagtccagg agctggagag gcacaacatc tccttggttag 180  
ctcagctccg ccagctgcag acgctaattg ctcaaacttc caacaaagct gccagacca 240  
gcacttggtg tttgattctt cttttttccc tggctctcat catcctgccc agcttcagtc 300  
cattccagag tcgaccagaa gctgggtctg aggattacca gcctcacgga gtgacttcca 360  
gaaatatcct gaccacaaag gacgtaacag aaaatctgga gacccaagtg gtagagtcca 420  
gactgaggga gccacctgga gccaggatg caaatggctc aacaaggaca ctgcttgaga 480  
agatgggagg gaagccaaga cccagtgggc gcacccgggc cgtgctgcat gcagatgaga 540  
tgtgagctgg aacagacctt cctggcccac ttctgatcac aaggaaatcct gggcttcctt 600  
atggctttgc ttccactggg attcctactt aggtgtctgc cctcaggggt ccaaatactt 660  
tcaggacacc ccaagagatg toctttagtc tctgctgagg cctantctgc atttggttgc 720  
atatatgaaa aggtacctgc ccgggccggc cgttcnaang gcgaatttca gcacactggc 780  
ggncgntact agtggatccc aactcgggtac caagc 815

<210> 228  
<211> 512  
<212> DNA  
<213> Homo Sapien  
  
<220>  
<221> misc\_feature  
<222> (1)...(512)  
<223> n = A,T,C or G

<400> 228  
annnnnttn accctannact atgacctgat tacgccaaact tggtagcgag ctcggatcca 60  
ctagtaacgg ccgccagtgt gctggaattc gccctttcga gcggccgccc gggcaggtac 120  
taggtttgca aaaccaatag catgcacatg tgttgggctg aggttcatgt gtcagagact 180  
cagttgtaga aggaactttg aatctggcag gcacttaact gtggctgctc agaactaatg 240  
tatctggggc tgcttgagca ggggctgagg tcagaggcag ggagtgaact cccatcac 300  
cttgactcag acccagctcc gcaggagctc catggctatc cctggagctc atgtggagtg 360  
caaggctccg gagtgggggc gctgacagaa acaaactctg ggggatcagc cagggtcagc 420  
aggggacaga gatcatgtct tttagaagaa tgtgggcttc ctgacctata gaagggcagc 480  
tggttcacccc ctgcagatga tagcagggat ng 512

<210> 229  
<211> 815  
<212> DNA  
<213> Homo Sapien  
  
<220>  
<221> misc\_feature  
<222> (1)...(815)  
<223> n = A,T,C or G

<400> 229  
gggcctnaga gcatgctcga cggccgccat gtgatggata tctgcagaat tcgcccttag 60  
cgtggctcgcg gccgaggtac tttttttttt tttttttttt ttcagagata ggttcttact 120  
atgctgccct ggctggagtg cagtggcttt cttaggggca atcacagctc actgcagcct 180  
ggaactcctg ggctcagcct cctaagtagt tgagactacc aatgcacgcc accatacctg 240  
gccttagata cccctgtat cctggaactc actccttata agagacactg aatgtggaag 300



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tcttcgcaga tattaagggc actgcccagt tcctgtcttt gaattattgg gccaaacaaca 360
gaaaggcgct cctgaggccc cagatcatcc ctgctatcat ctgcaggggg tgaacagctg 420
cccttctata ggtcaggaag cccacattct tctaaaagac atgatctctg tcccctgctg 480
accctggctg atccccccag atttgtttct gtcagcgccc ccaactcccg accttgcact 540
ccacatgagc tccagggatg accatggagc tcctgaggag ctgggtctga gtcaaggatg 600
atggagagct cactccctgc ctntgacctc agcccctgct caagcagccc cagatacatt 660
agtcttgagc agcccagtta agtgccctgcc agattcaaag ttccttctac aactgagtct 720
ctgacacatg aaccttaagc ccaacacatg tgcattgctat tgggttttgc aaacctagta 780
cctgnccggg cgggcccgttc gaaanggcga attct 815

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<210> 230
<211> 502
<212> DNA
<213> Homo Sapien

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<220>
<221> misc_feature
<222> (1)...(502)
<223> n = A,T,C or G

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<400> 230
tnnanctana cttgacctga ttaagccaac ttgggtaccga gctcggatcc actagtaacg 60
gccgccagtg tgctggaatt cgccctttct agcggccgcc cgggcaggta cacagagatg 120
cggtccagct gcaggctcgt gtccccgtgg taggtgcggg tggggtcgat gccatgttca 180
tactgatca cctcccagaa cttggcaccg atctggtagc cactactgacc agcctggatg 240
tgacagatgt cctcatggtt taaaatttta ttttttggct cgctcaagg tatgtatggg 300
gcaagaaaat aagtaatttt ttttctccgc aggtcgagg ctggaagggt ggaatgcgcc 360
ccagaggctg gagcagcgag gtgcaaacgc gacggcagga aggttctgag agccccgcgt 420
acctcgccg cgaccacgct aagggcgaat tctgcagata tccatcacac tgcggccgct 480
cgagcatgca tctagagggc cc 502

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<210> 231
<211> 817
<212> DNA
<213> Homo Sapien

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<220>
<221> misc_feature
<222> (1)...(817)
<223> n = A,T,C or G

```

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<400> 231
nngggcctct nnagctgctc gacggccgcc atgtgatgga tatctgcaga attcgccctt 60
agcgtggctg cggccgaggt acgcggggct ctcagaacct tcctgccgtc gcgtttgcac 120
ctcgtgctc cagcctctgg ggcgcattcc aaccttcag cctgcgacct gcggagaaaa 180
aaaattactt attttcttgc cccatacata ccttgaggcg agcaaaaaaa ttaaatttta 240
accatgaggg aaatcgtgca catccaggct ggtagctgtg gctaccagat cggtgccaag 300
ttctgggagg tgatcagtga tgaacatggc atcgacccca ccggcaccta ccacggggac 360
agcgacctgc agctggaccg catctctgtg tacctgcccg ggcggccgct cgaaagggcg 420
aattccagca cactggcggc cgttactagt ggatccgagc tcggtaccaa gcttggcgta 480
atcatgggtc tagctgtttc ctgtgtgaaa ttgttatccg ctcaaatc cacacaacat 540
acgagccgga agcataaagt gtaaaagcctg ggggtgcctaa tgagttagct aactcacatt 600
aattgcgttg cgctcactgc ccgctttcca gtcgggaaac ctgtcgtgcc agctgcatta 660
atgaatcggc caacgcgcgg ggagaggcng ntgcgtatt gggcgctctt ccgcttctc 720
gtcacttga ctgcgttgcg ctgcgtcgtt cngcttgcgg cnanccggat tcagcttact 780
taaaggcggt aataccggtt atccaccaga attangg 817

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<210> 232
<211> 481
<212> DNA
<213> Homo Sapien

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<400> 232  
actatgacct gattacgcc aagcttggtac cgagctcggg tccactagta acggcccgcca 60  
gtgtgtctgga attcgccctt tcgagcggcc gcccgggcag gtacaaattt gttgtgtttt 120  
ttatgttcta ataatactga gacttctagg tcttaggtta atttttagga agatcttgca 180  
tgccatcagg agtaaaattt attgtggttc ttaatctgaa gttttcaagc tctgaaattc 240  
ataatccgca gtgtcagatt acgtagagga agatcttaca acattccatg tcaaattctgt 300  
taccatttat tggcatttag ttttcattta agaattgaac ataattattt ttattgtagc 360  
tatatagcat gtcagattaa atcatttaca acaaaagggg tgtgaacctt agactattta 420  
aatgtcttat gagaaaattt cataaagcca ttctcttgc attcaggtcc agaaacaaat 480  
t 481

<210> 233  
<211> 809  
<212> DNA  
<213> Homo Sapien

<220>  
<221> misc\_feature  
<222> (1)...(809)  
<223> n = A,T,C or G

<400> 233  
gggcctctnn agcatgctcg acggcccgcca tgtgatggat atctgcagaa ttccgacctta 60  
gcgtgtctgc ggccgaggtt caaaaagatac tggtcacccc attagagaac tgatttgaag 120  
ttactcttcc ctgtgagggc tctgtcatct taactgtatt cacatacttt caactgttcc 180  
ccttgctgct aacctcaggt tctttagttc atctatctgg cagagctgat ttggggaaaa 240  
caagacaaac ctgtcaggt tttcttaata aataagcagt tgtcatgttt caagagtttt 300  
agaaatgagc aataatcaag gaagaggaca acgattgcat acgtttataa tatttagaac 360  
atcttttgcc acaataaaca ctggaaacca cccacttggt gacaccaaac atttggattt 420  
gtatattttt tggcattccc tcaacttaat cctctcatcc ttaaaaattt tcagaaattt 480  
ttgcagcaac aaacactgat tgcaacatat gatttagggg agatttatga accatttttt 540  
cactgaaata catcaacagg agtgagttag ctgagtgaac acccagcat ggagaaaact 600  
gtagtttaca gattcttctg gagcattttt atttctagat tgcagtggaa gtctaaccct 660  
ccttgagat gtctgcctta aagggtcttt ggccagggc ctctgtagag ccatagtcca 720  
gatctactct atttngtgc tctttacaac atcagaacag caactctcaa tccggatcat 780  
cccagaatgc cgctgagtca cagcgtggg 809

<210> 234  
<211> 482  
<212> DNA  
<213> Homo Sapien

<220>  
<221> misc\_feature  
<222> (1)...(482)  
<223> n = A,T,C or G

<400> 234  
actatgacca tgattacgcc aagcttggtt ccgagctcgg atccactagt aacggccgcc 60  
agtgtgtctg aattcgccct tcgagcggcc gcccgggcag gtactgaaaa gaagatagtg 120  
ccatttgaaa caacagatgc atcttttata cattttcaca agttngtttt tcatattttt 180  
aaaggcccca tttatctgta acagtgggtat ttttatttag agtatcggct acttaatata 240  
tacatgaac aatatatgct ttaatagtca ttttaacttt angaatattt catnacatta 300  
agtgggttaag catagcggtt aaagagtgga atataaggaa tannaanntn tngaaaatac 360  
gctgctannt tcatnngcan actatagtag aatggagatg cccataaaag tgatcattgc 420  
ccaactgaat tcttaccng aactaacatg tgattctcaa gtgggganaa atattattaa 480  
aa 482

<210> 235  
<211> 474  
<212> DNA  
<213> Homo Sapien

<220>  
<221> misc\_feature  
<222> (1)...(474)  
<223> n = A,T,C or G

<400> 235  
acttgacctg attacgccaa gcttggtacc gagctcggat ccactagtaa cggccgccag 60  
tgtgctggaa ttcgccctta gcgtggtcgc gcccgaggta cattacttgg tgtaaactt 120  
gttggcagtg gtagccctt ttcagaaagc aacttgctgt aagtcagggt gtccgttcca 180  
accttcagct agtgaaaagg tagtaacaaa tggtaacaaa gagaatgatt gtttaaacct 240  
atctgtggac acttaatgca actgtttaaa aatgataatc acgagttatg tagcaactgt 300  
gaaatatatt tacagaacat taatggagaa gcagggacac gaagtatat atactacagt 360  
tataactcaa cagtcattat atgccggta tttaccagtc atttaaccag ttcattataa 420  
ctgtttaaaa atatatatgc ttatagtcaa aagctgttgt ggtgtgtgtg ttgn 474

<210> 236  
<211> 819  
<212> DNA  
<213> Homo Sapien

<220>  
<221> misc\_feature  
<222> (1)...(819)  
<223> n = A,T,C or G

<400> 236  
gggccttnna gctgctcgnc ggccgccagt gtgatggata tctgcagaat tcgcccttcc 60  
gagcggccgc ccgggcaggt actttttttt tttttttttt tttttattt taactttatt 120  
tttattgntg acactattac agatagaatg accacaacca tattaacaaa ccaaaaaacct 180  
gtgcacagaa acaagatgaa gaaaatatat caagatgtta aacacactct ttggatgggt 240  
aaaacatggg tgagtttctc ttctacattt ctgttaactt aaagtttcta taatgaacac 300  
atttcataata taatggaaat atatgtagta aaggtggact accaaaacac tagaatgatg 360  
acctttcaag gaaaccgaaa caaaataacc ataattccac aacaaccaca caactatttc 420  
ttgnttttca tctttcttcc catctttgac atttatgcat acttatcact aacaccctaa 480  
taatcacaga ctagtgcaca gatcaagatg ttaacagtta attgtgtgtg ggtgttggtg 540  
atatgtgtga attttcttta ctgaatttcc aaagttttgt atgagtatgt attatatattg 600  
taatggaaaa tacatacata aaatttatta ccaaaacacc aaagattatt taagggaatt 660  
tgagacaaaa tatttaacca aattcccaca atgacaacac tatttttagt attttccaca 720  
tcttttcatt taagacttta tgcacacata tttaacactg gtatcacaa cgtgggcact 780  
gaaacaagga tnganggaac nggatcagga tgttagccg 819

<210> 237  
<211> 483  
<212> DNA  
<213> Homo Sapien

<220>  
<221> misc\_feature  
<222> (1)...(483)  
<223> n = A,T,C or G

<400> 237  
agcttgacct gattacgcca agcttggtac cgagctcgga tccactagta acggccgccca 60  
gtgtgctgga attcgcctt agcgtggtcg ccggcgagggt actaagctca gcatgtctca 120  
tggtcaatta ctgcgtattt ccaaaaaatg tgtgtgttgg tcttgagaaa attctttagc 180  
cccttgacac cagaattatc tccactgtag aaaaaataga caattatagt ctaacaggta 240  
aatcacaaaa attcttcagc cacacttccg gggttcaaag gtggttttcc tactcagtaa 300  
tattgtaacc ctgggcaagt tatttaactt gtctaagtct cagtttctcc atctgtaaaa 360  
tgaggataat cacaatatct actacataat gttcttctga agatgtaatg agataatcca 420  
tgtnaaatat tcanacagca cataggaatg ggtcatttaa tgtttatcat tacttgccca 480  
ttt 483

<210> 238  
<211> 815  
<212> DNA  
<213> Homo Sapien

<220>  
<221> misc\_feature  
<222> (1)...(815)  
<223> n = A,T,C or G

<400> 238  
gggccentnn agctgctcgn cggccgccag tgtgatggat atctgcagaa ttcgcccttt 60  
cgagcggccg cccgggcagg taccattatt ttccattcaa taccatatgt ctgaaaaata 120  
ggcaagtaat gataaacatt aaatgaccca ttccctatgt ctgtctgaat attttacatg 180  
gattatctca ttacatcttc agaagaacat tatgtagtag atatttgtat tatcctcatt 240  
ttacagatgg agaaactgag acttagacaa gttaaataac ttgccaggg ttacaatatt 300  
actgagtaga aaaaccacat ttgaacccag gaagtgtggc tgaagaattt ttgtgattta 360  
cctgttagac tataattgtc tattttttct acagtggaga taattctggt gtcaaggggc 420  
taaagaattt tctcaagacc aaacaacaca ttttttggaa atacgcagta attgaccatg 480  
agacatgctg agcttagtac ctccggccgcg accacgctaa gggcgaattc cagcacactg 540  
gcgcccgcta ctagtggatc cgagctcggt accaagcttg gcgtaatcat ggcatagct 600  
gtttcctgtg tgaattgtt atccgctcac aattccacac aacatacgag ccggaagcat 660  
aaagtgtaaa gcctgggggtg cctaattgagt gagctaactc acattaattg cgttgcgctc 720  
actgncgct ttccagtcgg gaaacctgtc gtgccagctg cattaatgaa tcggncaacg 780  
cgccggggag aggcngnttg cgtattgggc gctct 815

<210> 239  
<211> 483  
<212> DNA  
<213> Homo Sapien

<220>  
<221> misc\_feature  
<222> (1)...(483)  
<223> n = A,T,C or G

<400> 239  
actatgacct gattacgcca agcttggtag cgagctcgga tccactagta acggccgcca 60  
gtgtgctgga attcgccctt agcgtggtag cggccgagg actttttttt tttttttttt 120  
ttttttttta gcgagcaagt atggnattatt acggacaaat ggtagaaaaa tgttactaat 180  
atccatagat aagttcctta agtcatttag agagactggt attaaaagt ttgctgcattt 240  
ttctattgaa tcaagaacta gctaccagtt acagtgcctt ctaaacacac agttagcttt 300  
gctttatcaa taaccaaaata ataaactagg toccaatggg ttgtgccaca tntagattgt 360  
tcaggtagat aggaactctt ttatttgggt gcttttagctt ttagttcttg gttatatctc 420  
caaatacgaa aaagctgaga ggctcctact gccccacaa agaaattaac agcaaacaga 480  
ctt 483

<210> 240  
<211> 815  
<212> DNA  
<213> Homo Sapien

<220>  
<221> misc\_feature  
<222> (1)...(815)  
<223> n = A,T,C or G

<400> 240  
gggcctntna gctgctcgac ggccgccatg tgatggatat ctgcagaatt cgccctttcg 60  
agcggccgcc cgggcaggta caaccatcca gcaggccca gaacagtttt cttctgggct 120  
ccaattatga aatgggggtt ggtgtgtgct ggattggctg atatggccag acctgcagaa 180

aaacttagca	cagctcaatc	tgctgttttg	atggctacag	ggtttatttg	gtcaagatac	240
tcacttgtaa	ttattccaaa	aaattggagt	ctgtttgctg	ttaatttctt	tgtgggggca	300
gtaggagcct	ctcagctttt	tcgtatttgg	agatataacc	aagaactaaa	agctaaagca	360
cacaaataaa	agagttcctg	atcacctgaa	caatctagat	gtggacaaaa	ccattggggac	420
ctagtttatt	atttggttat	tgataaagca	aagctaactg	tgtgtttaga	aggcactgta	480
actggtagct	agttcttgat	tcaatagaaa	aatgcagcaa	acttttaata	acagtctctc	540
tacatgactt	aaggaaactta	tctatggata	ttagtaacat	ttttctacca	ttgtccgta	600
ataaaccata	cttgctcgct	aaaaaaaaa	aannnnnaaa	aaaaaaagta	cctcggccgc	660
gaccacgcta	agggcggaatt	ccagcacact	ggcggccgtt	actagtggat	ccgagctcgg	720
taccaagctt	ggcgtaatca	tgggtcatag	ctggttcctg	tgtgaaatgg	tatccgntca	780
caattncaca	caacatacga	accggaagcc	ttaag			815

<210> 241  
<211> 486  
<212> DNA  
<213> Homo Sapien

<220>  
<221> misc\_feature  
<222> (1)...(486)  
<223> n = A,T,C or G

agctatgacc	atgattacgc	caagcttggt	accgagctcg	gatccactag	taacggccgc	60
cagtgtgctg	gaattcgccc	ttagcgcccg	cccgggcagg	tacttcccac	cactggaaat	120
gttagcataa	aagaacttgg	agaggaaaaa	agtattaaca	aaactgcagt	ctgcactctt	180
taaacctgtt	taaggctctt	catectggtt	agcaaaaagg	gtgaatgtaa	tgtgatggaa	240
tttaaaaagt	ttatgagacc	aggcacagt	gctcacgact	gtaattccag	cagtttagga	300
agccgaagt	tgcagatcac	ctgaggtccg	gagaccagcc	tggccaacat	ggtgaaaccc	360
tgtctctact	agaaatacaa	aaattagcca	ggtgtggtgg	cgggcgcctg	taatcccaac	420
tactcaggag	gctgaggcta	gagaatcact	tgaaccacag	angcggaggt	tgcggtgagt	480
cganat						486

<210> 242  
<211> 481  
<212> DNA  
<213> Homo Sapien

<220>  
<221> misc\_feature  
<222> (1)...(481)  
<223> n = A,T,C or G

anttgacctg	attacgccaa	gcttggtacc	gagctcggat	ccctagtaac	ggccgccagt	60
gtgctggaat	tcgcccttcg	agcggccgcc	cgggcaggta	catcagtgtt	cattttatta	120
tttcttacac	tgtcttcctg	acttacacat	aatattttgc	tagttttaaa	acataagatg	180
tgataataat	ctaaacagac	caaaggaaat	aatgaatat	gattaaaaaa	agacagagaa	240
taagccctgt	ctgatggaaa	gcataacaaa	gcaggtagaa	caactgtcag	gaatgcttga	300
tccaataaag	ctaggtttgt	gatccacaac	acttcagcat	tttaatgtga	tttttgatgt	360
tngttttttg	caatggtgat	tctcagttgc	ctccctcctg	tgtctttaca	agctgaaatc	420
aagtgaagct	acttctgact	ttttctaaaa	cttaaaccca	acatgaaggt	ctgcgtattc	480
t						481

<210> 243  
<211> 824  
<212> DNA  
<213> Homo Sapien

<220>  
<221> misc\_feature  
<222> (1)...(824)

<223> n = A,T,C or G

<400> 243

cnannngggcc	tntnnagcat	gctcgacggc	cgccatgtga	tggatatctg	cagaattcgc	60
ccttagcgtg	gtcgcggccg	aggtagacata	tacttttagat	aaacattttt	agaataaactt	120
tattataact	cgataagcaa	aataatccaa	acctttatac	atttctacaa	ggatagtcac	180
atatgtcaat	ttttcggttt	cctctcgtgc	ctattttgtc	tcctgagccg	gcccctttcc	240
agctgacacg	tgtgtccgt	gttctccac	aatagtgtga	cctggcctga	gtccatgccg	300
ccgtgagcct	cctttctgtg	cttacaacag	cagcctgcct	gatgtcagtt	atggactatt	360
ctttctttca	gcctcatttc	agggtcctct	gcctcttaga	gctgctgctg	tagcttagct	420
agagaccgcg	tgtgttgca	tcattggaaaa	gtgccacata	cgtgcacatg	tgaaagaata	480
cgcagaccct	catgttgggt	ttaagtttta	gaaaaagtca	gaagtagctt	cacttgattt	540
cagcttgtaa	agacacagga	gggaggcaac	tgagaatcac	cattgcaaaa	agcaaacatc	600
aaaaatcaca	ttaaaatgct	gaagtgttgt	ggatcacaaa	cctagcttta	ttggatcaag	660
cattcctgac	agttgttcta	cctgcttttg	ttatgctttc	catcagacag	ggcttattct	720
ctgtcttttt	taatcatatt	catttatttc	ctttgggtctg	tttagattat	tatcacatct	780
tatgttttaa	aactagcaaa	atattatgtg	taagtcatga	agnt		824

<210> 244

<211> 483

<212> DNA

<213> Homo Sapien

<220>

<221> misc\_feature

<222> (1)...(483)

<223> n = A,T,C or G

<400> 244

actatgacct	gattacgcca	agcttggtac	cgagctcgga	tccactagta	acggcccgcc	60
agtgtgctgg	aattcgccct	ttcgagcggc	cgcccgggca	ggtagcggg	ggcaggggtg	120
ttaatcgctg	ccaagcggga	cttactgcaa	gctatcaa	ctgaggtctt	attttgtga	180
gtcgaaagtg	aaattttcct	ttggccaacg	tgacagggct	ttgtttgggtg	gtaaaaaggg	240
ttactagaca	ccctcattc	cactgccact	ggagggcgca	tttctcagct	cttgcctctc	300
aaacctgctg	aaaggaattc	ctagatctaa	acaccagcat	ttgacattgt	gcagcaana	360
aatggttatg	ganaagccca	gtccgctgct	tgtangggcg	gagtttgtga	ggcaatatta	420
tactttgctg	aataaagctc	cggaaatattt	acacaggttt	tatggcagga	attcttctta	480
tgt						483

<210> 245

<211> 822

<212> DNA

<213> Homo Sapien

<220>

<221> misc\_feature

<222> (1)...(822)

<223> n = A,T,C or G

<400> 245

ttggggccnt	nnagcatgct	cgacggccgc	catgtgatgg	atatctgcag	aattcgccct	60
tagcgtggtc	gcccgcgagg	tacttccct	cgaaacataa	tcggttttgc	aattaagatt	120
ctctgaactg	gttcagagtc	atcaaaaacc	acaaaaccaa	aatttggaag	ctttcccca	180
acacccttgg	tattgatgcg	aagttccaca	acgtttccaa	aactcatgaa	gaattccttt	240
agctcatttt	catcaatata	atgtggcaag	ttaccaacaa	aaagttgatg	actatctgga	300
tagcgaatta	ttctacggtt	gtcagagtca	ttctgttcca	tatctcctct	gcctgggtctt	360
ggtcctctag	gaggaaaacc	aggctcgtct	ctaggctcgtt	gttcacgcac	acgaggtggc	420
tgagattgaa	cttctgggtt	agcttcgact	cttggctttg	gtggttcttg	tggcagagaa	480
acaggttctg	ccggaggagg	agtagtagat	ttctcctcta	gttcttctaa	gttcttctcc	540
tccacttggtg	gtttcagctc	ttcagctttt	gtttcagatt	ctggctcagg	ttcaggttca	600
tgagaggatt	cttccaaagg	ctcctctatg	ccattagtca	caggggtgagc	ttcatagtaa	660
ccactgttag	cattttcttg	cacaggttca	ggagatgggt	gnctttcttc	ttggtcctct	720

tctacttcat cttctgattc ttcatacaag ttcangctca gaatcaccaa acacttnatc 780  
ttcataacga aacatatcat tgtgaacata aaattttattt gg 822

<210> 246  
<211> 482  
<212> DNA  
<213> Homo Sapien

<400> 246  
actatgacct gattacgcca agcttggtac cgagctcgga tccactagta acggccgcca 60  
gtgtgctgga attcgccctt agcgtggtcg cgcccgaggt actttttttt tttttttttt 120  
aaccaactca atattgtgtt gatgatagtg aattgataaa acccgaagct tttccctgta 180  
aatctttacat ctttgccttt aaagaatggg ttacaacccat cactagatca cagtagtgcc 240  
taatgaagggt tgagaaccgt aggagaggct ctcatgctgt aaataatggt gcaggctaatt 300  
aacctttcat cacttccctt gtgcgcttcc tgccttaagt gacaagtagc aacatggctt 360  
gggtccctcg tgcagcatca gcttatgctg ccacaagtca gtttgcaccc taggtgcccc 420  
ggagctagta tccttagatc tttctatcgc taacttaatt ctcttcgta tttatctgac 480  
cc 482

<210> 247  
<211> 816  
<212> DNA  
<213> Homo Sapien

<220>  
<221> misc\_feature  
<222> (1)...(816)  
<223> n = A,T,C or G

<400> 247  
gggccttnga gctgctcgan cgcccgccat gtgatggata tctgcagaat tcgccctttc 60  
gagcggcgc cgggagcagg actttaattt tgcttggtca aatgatctac acttacattt 120  
tgcaaatctt ttttttaaat ttttttaatt ttatattttt ttccagcca actcaaggcc 180  
aaaaaaaaatt tcttaataata gttattatgc gaggggaggg gaagcaagg agcacaggta 240  
gtccacagaa taagacacaa gaaacctcaa gctgtgaggt caatttgtaa ttaaaagaat 300  
actaagatta gatgaacaca aactcagaa atactctagg agggctgaaa aagaaggaaac 360  
agatgttaac aaaacaaatt aaggctgctg gggaacctga gtccatgtta agcttgggtt 420  
gactgtaaag aatttttttt tttttaatgc aagttagaca tggagttaga gggtcagata 480  
aataacgaag agaattaagt tagcgataga aagatctaag gatactagct cctgggcacc 540  
taggggtgcaa actgaacttg ggcagcataa gctgatgctg cacaggggac ccaagccatg 600  
ttgctacttg tcaacttaagg caggaagcgc acaaagggaag tgatgaaagg ttattagcct 660  
gcaacattat ttacagcatg agagcctctc ctacgggtct caaccttcat taggcactac 720  
tgngatctag tgatggttgt acccattctt taaaggcaaa gatgtaagat ttacagggaa 780  
aagcttcggg ttttatcaat cctatcatca acacng 816

<210> 248  
<211> 482  
<212> DNA  
<213> Homo Sapien

<400> 248  
actatgacct gattacgcca agcttggtac cgagctcgga tccactagta acggccgcca 60  
gtgtgctgga attcgccctt tcgagcggcc gcccgggcag gtactctttg ggcattaatg 120  
ccttctctgt aattatatct cgtttttgct tggcagtgac ctaccagta attgcatcgt 180  
gtattgccat gaaaggtaaa cacattgtga actgaactta ccaagcagat tctgtgagaa 240  
agcactggtt ggggctgaac actgttgaca catcattttt attggaagag tattaactgg 300  
tgctcttctt gaaacacacc aacctatatt cctctgctcc cccaaagctg tttctgatcc 360  
tgctgggagc aactaactag ttattatgca catctgctcc agaccagct ctttaacttc 420  
atggttttac agcttggttt ttctttttct tttcttttct ttttttttaa aaaagcacct 480  
tt 482

<210> 249

<211> 821  
<212> DNA  
<213> Homo Sapien

<220>  
<221> misc\_feature  
<222> (1)...(821)  
<223> n = A,T,C or G

<400> 249  
ggcctctnag ctgctcgacg gccgccatgt gatggatata tgcagaattc gcccttagcg 60  
tggctcgcggc cgaggtaact tatgaatttg gggtaggtaa agtttgattt ttatcttaaa 120  
catgttttct atgatgaaaa ggaacaaaaat tgtaaaaaat gaggatcttc cctctaagg 180  
tttcaaaagc gttagaggaca tgcaattaaa tgttggtaca ccttgaacaa tgagcctctt 240  
gagttttagt gaagggcaga ccggctccat taccaacaac tttggggtag aaagcacagc 300  
tctcctcttt taccagcac aaatgcaatc ctgattataa aactatttgt gtttctaaat 360  
acaaccaaag gaaatcttag agaaacataa attagaaacc tcttttatta aggggaaaca 420  
acaaaaaaag gtgctttttt aaaaaaaaaa aaaagaaaag aaaaagaaaa aacaagctgt 480  
aaaaccatga agttaagag ctgggtctgg agcagatgtg cataataact agttagtgtc 540  
tcccagcagg atcagaaaca gctttggggg agcagaggaa tatgggttgg tgtgttcag 600  
aagaggcacc agttaatact cttccaataa aaatgatgtg tcaacagtgt tcagcccaa 660  
ccagtgtctt ctcacagaat ctgcttggtg agttcagttc acaatgtgtt tacctttcat 720  
ggcaatacac gatgcaatta ctgggtaggt cactgccaag caaaaaccga agatntaatt 780  
tcccagaag gcattaatgc ccaaagagta cctgccccgg n 821

<210> 250  
<211> 481  
<212> DNA  
<213> Homo Sapien

<400> 250  
acttgacctg attacgcaa gcttggtacc gagctcgat ccactagtaa cggccgccag 60  
tgtgctggaa ttcgccctta gcgtggctgc ggccgaggta caacattgat gttttaatat 120  
agaatgaagt gcttgctaca cagtcaagta aatcaacata tccattacca cacacacttt 180  
tcttttctga ggagcggtaa gagtacttta attttgagt tattgattaa ttaaaaaaca 240  
cagttgtttt cagcatttcc tagttacagt agtgcatagg aaattccatt ctaaacaag 300  
aagtaattaa tgaaataaca acacacctta acattttaca ttgatagggt acagtttaca 360  
agggtgcttc acatacatta tttcatttga ttcttacaac aagcagaaaa aacagtggga 420  
aagatTTTTT ttttcaggct tacaatgagt attttcaggc caatgggcag ttaacacaag 480  
g 481

<210> 251  
<211> 803  
<212> DNA  
<213> Homo Sapien

<220>  
<221> misc\_feature  
<222> (1)...(803)  
<223> n = A,T,C or G

<400> 251  
gggccttnna gctgctcnc gccgccaggt gtgatggata tctgcagaat tcgccctttc 60  
gagcgccgc ccggcaggta cactaaatta gaatatTTTT aaagtatgta acattcccag 120  
tttcagccac aatttagcca agaataagat aaaaacttga ataagaagta agtagcataa 180  
atcagtatTTT aacctaaaat tacatatTTT aaacagaaga tattatgTTa tgctcagtaa 240  
ataattaaga gatggcattg tgtaagaagg agccctagac tgaaagtcaa gacatctgaa 300  
tttcaggctg gaaaactatc agtatgatct cagcctcagt tctcttgtct gtaaaatgga 360  
agaactggat taggcagttt gtaagattcc tcttaacttt cacagtcgat gacaagattg 420  
tctttttatc tgatatTTTg aagggatatat tgctttgaaG taagtctcaa taaggcaata 480  
tatttttaggg catctttctt cttatctctg acagtgttct taaaattatt tgaatatcat 540  
aagagccttg gtgtctgtcc taattccttt ctcactcacc gatgctgaat acccagttga 600



atcaaaactgt	caacctacca	aaaacgatat	tgtggcttat	gggtattgct	gtctcattct	660
tggtatattc	tttgtgtaac	tgcccatggc	ctgaaaaatac	tcattgtaag	cctgaaaaaa	720
aaaatctttc	ccactgggtt	ttctgcttgg	tgtagaatac	aaatgaaata	tggaatgtgaa	780
agcccttgta	actgtacctt	tcn				803

<210> 252  
 <211> 500  
 <212> DNA  
 <213> Homo Sapien  
  
 <220>  
 <221> misc\_feature  
 <222> (1)...(500)  
 <223> n = A,T,C or G

<400> 252						
tacnccaann	tttgacctga	ttacgcccaag	cttgggtaccg	agctcggatc	cactagtaac	60
ggccgccagt	gtgctggaat	tcgcccttag	cgtggctcgc	gccgaggtag	agatgaaaag	120
aagtgtgtgt	aatgacctac	ctgcaccgat	aataaaagcaa	atagaatgat	tatatacatt	180
aagatcagct	tgattaaaaa	taaattttat	atgcaggtaa	attgatcatt	aaaatgaacc	240
cagtttaact	cttctcgtgt	gttgttttaa	ggtagggccac	tgaaacgcag	agataaaatc	300
anatggggaa	aattaaaagc	naagaaaaaa	attacaaaac	aagtgggtta	agccatggat	360
tcttaaccaa	acctcggact	aaatgtgcc	aagtgccttg	aaaatttcca	ctgccagcna	420
tggnatgtaa	agtcantttg	gcaaaaaaaa	ggtggttnga	aaaaaaactn	acctttttaa	480
ttccacacct	ggatctggcn					500

<210> 253  
 <211> 831  
 <212> DNA  
 <213> Homo Sapien  
  
 <220>  
 <221> misc\_feature  
 <222> (1)...(831)  
 <223> n = A,T,C or G

<400> 253						
gnnnnnnnnn	gnnnnnnnnn	ntttnnantg	ggcctctnna	gcattgctga	cggccgccat	60
gtgatggata	tctgcagaat	tcgccctttc	gagcggccgc	ccgggcagg	actatatttg	120
tgagcctagg	gtaggggcac	tgctgcaact	tctgctttca	tcccatgcct	catcaatgag	180
gaaaggggaa	aaagtgtata	aaactgccac	aattgtatct	taattttgag	gtatgatatt	240
ttcagatatt	tcataatttc	taacctctgt	tctctcagta	aacagaatgt	ctgatcgatc	300
atgcagatac	aatgttggtt	tttgagaggt	tagttttttt	tctacactt	ttttttgcca	360
actgacttaa	caacattgct	gtcagggtgga	aatttcaagc	acttttgcac	atttagttca	420
gtgtttgttg	agaatccatg	gcttaaccca	cttgttttgc	tatttttttc	tttgctttta	480
attttcccca	tctgatttta	tctctgcgtt	tcagtggcct	accttaaaac	aacacacgag	540
aagagttaaa	ctgggttcat	tttaatgatc	aatttacctg	catataaaat	ttatttttaa	600
tcaagctgat	cttaatgtat	ataatcattc	tatttgcttt	attatcggtg	caggtaggtc	660
attaacacca	cttcttttca	tctgtacctc	ggccgcgacc	acgctaagg	cgaattccag	720
cacactggcg	gcccgttact	agtggatccg	agctcggtag	caagcttggt	gtaatcatgg	780
gtcatagctg	tttctgtgtg	gaaatttggt	tccgntcaca	attcccacan	g	831

<210> 254  
 <211> 514  
 <212> DNA  
 <213> Homo Sapien  
  
 <220>  
 <221> misc\_feature  
 <222> (1)...(514)  
 <223> n = A,T,C or G

<400> 254  
cacttgacnt gatcgccaac ttggtaccga cntcgnntcc attattaccg gacacttgac 60  
tgatacgcca ncttgggtacc gactcggacc actagttaacg gncgccagtg tgctggaatt 120  
cgcccttgag cgcccgcccg ggcagggtacc tctaattgag gctaataaat ttaagctaatt 180  
tatttatgct acctgtgctg tgggtggttc ctatcagcag ccaaatataa cctcacagtt 240  
gttttgcgtg ttttgccttc acaaaaagagc tattaaccaa cttaaaaatg ttttttgatt 300  
gaaggatgct taggggatga gaggatatca acaatataag cccatgccaa atccccattt 360  
cttatcatta aaactgacct gacattaaag caatgcttaa ttttttacca taagagtga 420  
atattgagat tataatttta aagtgtaaaa tatttacact taaattacac ttataatttt 480  
aaagtgtata atatttacac agattaaaat aaaa 514

<210> 255  
<211> 830  
<212> DNA  
<213> Homo Sapien

<220>  
<221> misc\_feature  
<222> (1)...(830)  
<223> n = A,T,C or G

<400> 255  
nnnnnnngn nnnnnnnnnn nnnnnnnant gggcctctnn agcntgctcg acggccgcca 60  
tgtgatggat atctgcagaa ttccgacctta gcgtgggtcgc ggccgaggta cttttttttt 120  
ttttccagat gaagtcttgc tctgttgccc aggcgtggagc gcagtgccac aatctcagct 180  
cactgaaacc ttccgccccct gggctcaagc tagccagctct tttagttaac atttagtcaa 240  
caaatctgca attataacgg aggttttgatt tttgttggtt ttgtttggtt ttaagtcact 300  
ctgtggttgc aatatcaatt tacttttcaa gtttagaatg ttttgcttca ttgtttccca 360  
tattttattt taatctgtgt aaatattata cacttttaaaa ttataagtgt aatttaagtg 420  
taaatttttt acacttttaa attataatct caaaatttca ctcttatggg aaaaaattaa 480  
gcattgcttt aatgtcaggt cagttttta gataagaaat ggggatttgg catgggctta 540  
tattgttgat atcctctcat cccctaagca tccttcaatc aaaaaacatt ttaagtgtg 600  
ttaatagctc ttttgtgaaa gcaaaaacag caaaaacact gtgagggtat atttggtgc 660  
tgataggaaa ccaccacagc acaggtagca taaataatta gcttaaat attagcctgc 720  
attagaggt cctgcccggg cnggccgtca agggcggaatt ccagcacact ggccggccgtt 780  
ctagtggatc cgactcggtc cagcttgctg aatcatggtc atagctgttg 830

<210> 256  
<211> 524  
<212> DNA  
<213> Homo Sapien

<220>  
<221> misc\_feature  
<222> (1)...(524)  
<223> n = A,T,C or G

<400> 256  
cnnnnnnnna ncntnanacn nnnnnntnngn nnnnnnagnn nnnnnnnnnn nnnnnnnnan 60  
actatgactg attacgcca cttggtaccg actcggatcc actagtaacg gccgccagtg 120  
tgctggaatt cgcccttagc gtgggtcgcgg ccgagggtaca ttacttggtg ttaacattgt 180  
tggcagtggt agcccctttt cagaaaagcaa cttgctgtaa gtcagggtgt ccgttccaac 240  
cttcagccag tgaagaggta gtaacaaatg gtaaacaaaga gaatgattgt ttaaacctat 300  
ctgtggacac ttaatgcaac tgttttaaaa tgataatcac gagttatgta gcaacgtgga 360  
aatatattta cagaacatta agtggagaaa gcaggacacg aaagtatatt tatactacag 420  
ttataactca acagtctcatt tatatgctgn tcattttaaca gttcatttaa acagttcatt 480  
ataactgttt aaaaatatat atgcttatag tcaaaagctg ttgg 524

<210> 257  
<211> 814  
<212> DNA  
<213> Homo Sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(814)  
 <223> n = A,T,C or G

<400> 257  
 ntgggcctct agaagcatgc tcgagcggcc gccagtgtga tggatatctg cagaattcgc 60  
 ccttgagcgg ccgcccgggc aggtactttt tttttttttt tttttttttt tttgatattt 120  
 atttttaact ttatttttat tgntgacact attacagata gaatgaccac aaccatatta 180  
 acaaaccaaa aacctgtgca cagaaacaag atgaagaaaa tatatcaaga tgttaaccac 240  
 actcttttga tgggtgaaaac atgggtgagt ttctcttcta cattctgtga acttcaaagt 300  
 ttctataatg aacacatttc atatataatg gaaatatatg tagtaaagggt ggactaccaa 360  
 aacacataga tgatgacctt tcaaggaaac cgaaacaaaa taaccataat cccacaacaa 420  
 ccacacaact atttcttgct ttccatcttt ctcccatct ttgacattta tgcatactta 480  
 tcaactaac cctaataatc acagactagt gcacagatca agatgttaac agttaattgt 540  
 tgttggtgtg tgggaatatg tgtgaatttt ctttactgaa tttccaaagt tttgtatgag 600  
 tatgtattat atttghtaat gaaaatacat acataaaaatt tattacaaa acaccaaaga 660  
 ttatttaagg aatttgagac aaaatatatta accaaattcc cacaatgaca acactatttt 720  
 agttattttc cacatctttt catttaaaaga ctttatgcac acatatttaa cactgntatc 780  
 acaagcgtgt gcaactgnaac aggattgagg aaan 814

<210> 258  
 <211> 474  
 <212> DNA  
 <213> Homo Sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(474)  
 <223> n = A,T,C or G

<400> 258  
 acagctatga cctgattacg ccaagcttgg taccgagctc ggatccacta gtaacggccg 60  
 ccagtgtgct ggaattcgcc cttagcgtgg tcgcccgcga ngtacattat ttggaggact 120  
 taaaatctgn atgtggacat ggtcccaact tantgtccgt taactagtta tccaaattgt 180  
 aanagctaca gaaagcccag ttgaggggta antgtgctg gntcacacag cctgcacctt 240  
 gtcacctcgg caatgagcca gtgtggggca ctggggactt ctaacccttg gattgctctt 300  
 tttagcctgt gcataccttc taattgnaaa atatatttca gaccgagagt acntgcccgg 360  
 gcggccnctc aaaaaggcga attctgcaaa tatccatcac atggcggccg ntngagcatg 420  
 catctaggag ggcncaatc ccctatagn agtngtatta caattccact gcnc 474

<210> 259  
 <211> 809  
 <212> DNA  
 <213> Homo Sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(809)  
 <223> n = A,T,C or G

<400> 259  
 ntggggccnt agangcatgc tcgncggccg ccagtgtgat gatattctgca gaattcgccc 60  
 ttctgagcgg ccgcccgggc aggtactcac ggtctgaaat atattttaca attagaagggt 120  
 atgcacaggt caaaaagagc aatccaaggg ttagaagtcc ccagtgcctc acactggctc 180  
 attgccgagg tgacagggtg caggctgtgt gagccaggca cacttacctc tcaactgggc 240  
 ttctgtagct ttacaatttg gataactagt tagcggacag tagttgggac atgtcacata 300  
 cagatttgag tcttccaata atgtacctcg gccgcgacca cgctaagggc gaattccagc 360  
 acactggcgg ccgttactag tggatccgag ctccgtacca agcttggcgt aatcatgggtc 420  
 atagctgttt cctgtgtgaa attgttatcc gctcacaatt ccacacaaca tacgagccgg 480  
 aagcataaag tgtaaaagcct ggggtgccta atgagtgagc taactcacat taattgcgtt 540

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gegetcactg cccgcttttc agtcgggaaa cctgtcgtgc cagctgcatt aatgaatcgg      600
ccaacgcgcg gggagaggcg gtttgcgtat tgggcgcctc tccgcttcct cgctcactga      660
ctcgcctgcg tcggtcgttc ggctgcggcg agcgggtatca gctactcaaa ggcggtaata      720
ccgttatnca cagaatcang ggatacgacg gaaagaacat gtgagcaaaa ngccacaaaa      780
ggccaggaac cgtaaaaagg ccgcgtttg                                     809

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<210> 260
<211> 713
<212> DNA
<213> Homo Sapien

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<220>
<221> misc_feature
<222> (1)...(713)
<223> n = A,T,C or G

```

```

<400> 260
ctcttttaaac gccagctcga ntccganntc tatecntgac aannnnngtn ccggnctgga      60
attcgncttt tcgagcggcc gcccgggcag gtacttgagt tcatgggcat ctctcccgcc      120
gcctctcagc ctatctgcac catgtctcac acgttcagtt gcagctctta ccgttttgaa      180
ggcgcacgtg ggcaagaagt cctgggcagc acaagaaagt caatcacgtt gagacagaga      240
gagcaggaga ggaagtgggc ccagtagaaa gtgggcgaga gagcgttggg tgggaacgtg      300
gcacgagaga gagaaattat gagattgaga gagagagaga gagagagaga gagagagaga      360
gaaagagana ganagaggga aaganaaaga gacagagaaa agaaactatt gttgggttaa      420
atgccagcgg aaagtccatg ggggtgaatg agtccggcaa tggncangga gttagcagct      480
tggcgtagtg tctttcactg ntttggtgtt cttgagaata gcattcnacn ccgactgtgg      540
ttccccanca gacttttagc ngttgccng ncttgaattg ccggaccaag gttaacatag      600
gcttttcggg tctnaatatt tttggggctn gaatanctgg aaccntttgg gctggggccat      660
ttaccgcgntn cnnctngggt nnnacatttt tncgtgntaa tcccgccttt tng          713

```

```

<210> 261
<211> 722
<212> DNA
<213> Homo Sapien

```

```

<220>
<221> misc_feature
<222> (1)...(722)
<223> n = A,T,C or G

```

```

<400> 261
acgcanttag gtaccgagct cggatcccta gtaacggcgg ccagtgtgct ggaattcgcc      60
cttagcgtgg tcggggcccg aggtactcct cagccatgcc gaaggctctc ttccgggact      120
cttcgatggc agacagcagg gcattgtcct tctcattctt caggaagccc tgcagctctt      180
aaattttaagg agttacagaa cggtcgatgc tgnccgatcc tgcagctctt ccaaaccctc      240
ttatatgaga tgagctctgt cggaaaccagt gctcaagttt tcccacccc aaactgcctg      300
aattgaggga tgggggtggg gagaaggaca gagagaagag aaaaagagag aaagaagana      360
aaggaaaaga acaacccttc tgcaagtgtc gatgtgactg aagcactaaa gagtcaaatt      420
aaacaatgaa gattgcaggg tccctttaa aaggggtgcac tgcagncccc ngagcacanc      480
natcccatte gnttgncccg ctncacanat tctagagaan tcnnccatca tgtttgaaan      540
gcncaaaant gatgggannt cccgnntacg cggggactta attctgcctt gggaaatcaa      600
ggaanacttt gnttggangc ggcanttnaa anntggcctt aagaangnng tngaatattg      660
ttggccaaac nantngaaag gtnttcggcg cgatnggtcc ctgattttta aggatttnaa      720
ng

```

```

<210> 262
<211> 705
<212> DNA
<213> Homo Sapien

```

```

<220>
<221> misc_feature

```

&lt;222&gt; (1)...(705)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 262

acgctttaa	cnccagcttg	gtaccgagct	cggatcccta	gtaacggccg	ccagtgtgct	60
ggaattcgcc	cttgccgccc	gggcagggtac	ctgatatttt	gaacttttaa	ttgctatcaa	120
atttcagctc	tggttttatg	cattgttgta	atttctcagt	gaatcccagt	gcttctttcc	180
ttcttgaaaa	atgccatttc	gcccaggcgc	ggtggctcat	gcttgtaatc	ccagcacttt	240
ggtaggccga	ggtgggtgga	tcagctgagg	tctgtagtcc	aagaccagcc	tggctaaccat	300
gatgaaaccc	tgtctctacc	aaaaatacaa	aaaaaaacta	gccaggcatg	gtgttgtagt	360
cctgtaatcc	cagctactca	ggaggctgag	acaggagaat	cgcttgaacc	tgggaggtgg	420
agggtgcagt	gagccaagat	cgcgccactg	cactncaacc	tgggcaacag	agtgaagactc	480
catctcaaaa	naannaaaaa	ggaaaatgcc	atttcttggg	cccantgcca	atatgcacca	540
agaatgttng	taggaactac	tttggctctg	ctgcagaagt	tcttaatcta	gcattaaaaa	600
tccaacggtt	gatttgatct	cttaaaatgg	ttttcnnt	ttgganctga	aattgagnat	660
aaattacctt	tgcnnntnaa	ttcaaaangt	tnaacctnnt	tnann		705

&lt;210&gt; 263

&lt;211&gt; 656

&lt;212&gt; DNA

&lt;213&gt; Homo Sapien

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(656)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 263

acncgcttgt	accgagctcg	gatccctagt	aacggccgcc	agtgtgctgg	aattcgccct	60
tagcgtggtc	gcggcccag	gtaccgcggg	ggagaacgcc	aggagctgt	gagagtgtgc	120
agtcgcgttc	ctgctgtccg	gacacttttt	tcctctactg	agactcatct	ggtagatccg	180
caggccagtc	ctcccagggg	ctgaagtgtg	gaaatatggg	ttttctaaga	agattaatct	240
atcgccgtag	accaatgac	tatgtagaat	cttctgagga	gtccagtgat	gagcaacctg	300
acgaagtgga	atcaccaact	caaagtcagg	attctacacc	tgctgaagag	agagaggatg	360
agggagcatc	tgcagctcaa	gggcaggagc	ctgaagctga	tagccaggaa	ctggttcagc	420
caaagactgg	gtgtgagctt	ggagatggtc	ctgataccaa	gagggnttgc	ctgcgaaatg	480
aagagcagat	gaaactgccc	gnagaaggcc	agacctgann	cgatagcagg	acagttcccc	540
gaaactggtg	tagcgcgaat	gtctgtgtca	gagtgccctg	ccaatcaagg	agtgaacctt	600
gggaataaag	atccagctta	aagannccct	ganggttagt	gtctngtgaa	ttncct	656

&lt;210&gt; 264

&lt;211&gt; 752

&lt;212&gt; DNA

&lt;213&gt; Homo Sapien

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(752)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 264

ggnttgaang	tatacgactc	nctanggcga	attgggccct	ctagatgcat	gctcgagcgg	60
cccgccagtg	tgatggatat	ctgcagaatt	cgcccttagc	gtggctcgcg	ccgaggtacc	120
tttgataatt	cctagacctc	tattttcatt	ctgtgtatta	atgtgaataa	cagatggata	180
ttttaaatatt	taaggcagat	ggtaaaacttt	cctataggct	ttgtgagact	tcgtcttata	240
ggctgaacac	cattcacaaa	atgtaataat	gcttcattcc	ttcagggttg	ggtaaagaac	300
ttgagcaact	ggattagcaa	agctgcaaag	aatgaaatgt	ggcctaagat	gtaattatgt	360
tctctgccct	tcttttgggc	cagggtagtt	ttgcacttga	cacaatggaa	aataggccat	420
aaagcctgaa	aataaaatgt	tctaaacccc	aatctcacag	cacttttagta	ggcttttcac	480
taggcatctt	taagtatttt	tcaacaaaat	actaatgaag	ctaccacttc	aaaagagctt	540
caaggaaaag	ctctgctttc	ttataaaatc	tttttgagac	agagtttccg	ctctgtcag	600
cacaggctgg	agtgcaatgg	ccgtgatctc	gactnaaccg	naaccttcgg	cctgctgggt	660

tcaagtgtatt ctctagnect caagcttctg agtaggttgg gattacaggg gcccggncaa 720  
ccacacctgg gctaaaatttt ggatttctan gn 752

<210> 265  
<211> 747  
<212> DNA  
<213> Homo Sapien  
  
<220>  
<221> misc\_feature  
<222> (1)... (747)  
<223> n = A,T,C or G

<400> 265  
gngntttcnc nnnngcgtct anagcatgct cgagcggccg ccagtgtgat ggatatctgc 60  
agaattcgcc cttagcgtgg tcgcgccga ggtaccttg atnattccta gacctctatt 120  
ttcattctgt gtattaatgt gaataacaga tggatattgt aatatttaag gcagatggta 180  
aactttccta taggtcttgt gagactncnt cttataggct gaacaccatt nacnanntgt 240  
antaatgctt nattccttca ggengaggtn nanaacttga gcacctggat tagcagcagc 300  
tgcaagaat gaaatgcngc ctaacatgta attatgnatc tctgnccttc ctttggggcca 360  
gggtagtnat gcncctagaca cantggatga tangccatna agcctgannn tgnaatgatc 420  
taaacccnaa tctnncagca ctttattagg ctantcacta ggcactctta agagtnggtt 480  
ccnttaata ctagncaacc nccactcca aaanancctc aagganaagc tntgntntnt 540  
tanaaaatct tttcggnaca cantttnacn cttggcgenc angctggant gcaatggccg 600  
tgatctctac tcaccgaan cctcngactg ctgagttcaa gtgattgtct gnccttanct 660  
ctccgggacc angnttnggg attancaagc ctgcggggca annacaggtg nctaattgnt 720  
tgcattngcn taaaatnagg acaccng 747

<210> 266  
<211> 738  
<212> DNA  
<213> Homo Sapien  
  
<220>  
<221> misc\_feature  
<222> (1)... (738)  
<223> n = A,T,C or G

<400> 266  
cgnnnttgaa ggnntacgact cactataggg cgaattgggc cctctagatg catgctcgag 60  
cgcccgccag tgtgatggat atctgcagaa ttgcgccctt cgagcggccg cccgggcagg 120  
tacagctgaa gtttgataac aaagaaatat atataagaca aaaatagaca agagttaaca 180  
ataaaaaacac aactatctgt tgacataaca tatggaaact ttttgtcaga aagctacatc 240  
ttcttaatct gattgtccaa atcattaaaa tatggatgat tcagtgccat ttgcccagaa 300  
attcgtttgg ctggatcata gattaacatt ttcgagagca aatccaagcc attttcatcc 360  
aagtttttga catgggatgc taggcttctg gtttccattt gggaaatgta ttcttatagt 420  
cctgtaaaga ttccacttct ggccacactt cattattggg agtgcccaaa gctctgaaat 480  
cctgaagagt tgatcaattc tgaatcccat ggaaaagtgg ttcttagtgc tagtcaacaa 540  
atatngngc ctatactcca aaggtcactt ggagttgagt natggagctg accccagcat 600  
acttttggaa aactggacca agtggttga ccacnttaa aaaatttaaa accggnngta 660  
ttttaataaa ggtggaagaa accttttctt tttttattta aggaattcac ttagcnctta 720  
ctaaattcat ggtggggg 738

<210> 267  
<211> 731  
<212> DNA  
<213> Homo Sapien  
  
<220>  
<221> misc\_feature  
<222> (1)... (731)  
<223> n = A,T,C or G

<400> 267  
gngnntttgn aagggccctc tagatgcatg ctcgagcggc cgccagtgtg atggatatct 60  
gcagaattcg ccttttcgag cggccgcccg ggcaggtaca gctgaagttt gataacaaag 120  
aaatatatat aagacaaaaa tagacaagag ttaacaataa aaacacaact atctgttgac 180  
ataacatatg gaaacttttt gtcagaaaagc tacatcttct taatctgatt gtccaaatca 240  
ttaaaaatag gatgattcag tgccattttg ccagaaaattc gtttggctgg atcatagatt 300  
aacattttcg agagcaaatc caagccattt tcatccaagt ttttgacatg ggatgctagg 360  
cttctgtgtt tccatttggg aaatgtattc ttatagtcct gtaaagattc cacttctggc 420  
cacacttcat tattgggagt gccc aaagct ctgaaaatcc tgaagagttg atcaatttct 480  
gaatccccat ggaaaagtgg tttcttagtt gctagtccag caaatatggt gcctatactc 540  
caaatgtcaa ctggagttga gtaatgagct gaccccgca atacttctgg agatctgtca 600  
agtggttgca acaccattaa aaaatataaa agcagtagtt atattaaaat aatgttgaag 660  
aaaacatatn cctatatatt tnaaggaatt tcactaagca ctactaaatt tcatgttggt 720  
gggngngtt a 731

<210> 268

<211> 745

<212> DNA

<213> Homo Sapien

<220>

<221> misc\_feature

<222> (1)...(745)

<223> n = A,T,C or G

<400> 268  
gnnnnnttaa agnanacntc actatanngc gaattgggccc ctctagatgc atgctcgagc 60  
ggccgccaggt gtgatggata tctgcagaat tcgccctttg agcggccgccc cgggcaggta 120  
cttcccacac aggtttgttg taaaaattaa gtgagctaatt gtgtataaaa tacttcagtg 180  
ctgaataaat gttggcctttt attatatatt gttaaaaaaac aacacaggct gggtatgata 240  
gctcacgcct ataactcctag catttaggga ggccaaggca ggaggattgc ttgagtcagg 300  
gggtttgaga ccagcctggg caacatagtg agaccctatc tctacaaaat aaaataaatt 360  
agttgggcat ggtggcaccat gcctgtagtc ccagctactc aggaggctga ggtgggagga 420  
ttgcttgagc ccaggaggta gaggttgcag tgagctgtga tcacaccact gcactccagc 480  
gtcggtgacg gagtggagaac ctatctcaaa caaacaacaa aaaaaaccca aaacaacaa 540  
aaaaatccag taagagacaga gattcctaata attctacaat tctaaaaaac agtagggctc 600  
actgaatata agagaggcaa gcaaaaaatt actccaatat tttgagtttg ggtaacctgg 660  
aatatgggtc atttattgag taaatagtta ctgagtccta actatgtgcc acacactggg 720  
ttaacacttg gcactgtctc ttatg 745

<210> 269

<211> 730

<212> DNA

<213> Homo Sapien

<220>

<221> misc\_feature

<222> (1)...(730)

<223> n = A,T,C or G

<400> 269  
gntnnnttt tnaanccggt cctnntgcat gctcgagcgg cccgccagtg tgatggatat 60  
ctgcagaatt cgccctttga gcggccgccc gggcaggtac ttcccacaca ggtttgttgt 120  
aaaaattaag tgagctaatt tgtataaaat acttcagtgc tgaataaatg ttggctttta 180  
ttatatattg ttaaaaaaca acacaggctg ggtatgatag ctacgccta taatcctagc 240  
atttagggag gccaaaggcag gaggattgct tgagtccagg ggtttgagac cagcctgggc 300  
aacatagtga gaccctatct ctacaaaata aaataaatta gttgggcatg gtggcacatg 360  
cctgtagtcc cagctactca ggaggctgag gtgggaggat tgcttgagcc caggaggtag 420  
aggttgagcag gagctgtgat cacaccactg cactccagcg tcggtgacgg agtgagaacc 480  
tatctcaaac aaacaacaa aaaaacccaa aacaaacaa aaaatccagt aaagacagag 540  
attcctaata ttctacaatt ctaaaaacca gtagggtcta ctgaatataa gagaggcaag 600

caaaaaatta ctccaatatt ttgagtttgg gtaacctgga atatggtcat tattgagtna 660  
atagttactg agtcctacta tgtgcccaca ctgggtnaac acttgcactg tctcttatga 720  
aatcttccan 730

<210> 270  
<211> 713  
<212> DNA  
<213> Homo Sapien

<220>  
<221> misc\_feature  
<222> (1)...(713)  
<223> n = A,T,C or G

<400> 270  
aattgggccc tctagatgca tgctcgagcg gccgccagtg tgatggatat ctgcagaatt 60  
cgccctttcg agcgcccgcc cgggcaggta caaaccaata gctcctattc tgggaaggttt 120  
tctttttatt taaaaaaaaat tcaacaagg ttaaaagtca agcaagaagg gaagagagaa 180  
actgggttct gagaaaaaaa tgtgccagta taaaataaac tcctaaatgc gtgcttgtca 240  
tcctctagtt ttttttttaa gttgaatttc ttttccactg taacttaaga tttgagattg 300  
aggtttgagg tccagaacat accctcagca gatacagtga ctaactggaa agtgcagttg 360  
ttcaaggctct gtcattgctca atcacctaaa gctataattt gnttgatata ttaagcatgt 420  
agacctagtg cagcatggga gccactcagg aagtttatgc aattaataaa ctttcagcat 480  
aatttactat gaagtatgca gaatttcacc ctcttctcca cacttaacat ttagtgtgat 540  
atgtgaactc tcctttctta attggggaat gtagcattat atagaatgtt gntaaaggta 600  
attttaatcc tttttgacat taaccttttt tttttttggn aaaccaagtg atctgccttt 660  
cagcaactgg cttatttttg gtctttgaaa ctgngatttt tatttcattn gnc 713

<210> 271  
<211> 702  
<212> DNA  
<213> Homo Sapien

<220>  
<221> misc\_feature  
<222> (1)...(702)  
<223> n = A,T,C or G

<400> 271  
gnctcgagcg gccgccagtg tgatggatat ctgcagaatt cgccctttcg agcgcccgcc 60  
cgggcaggta caaaccaata gctcctattc tgggaaggttt tctttttatt taaaaaaaaat 120  
tcaacaagg ttaaaagtca agcaagaagg gaagagagaa actgggttct gagaaaaaaa 180  
tgtgccagta taaaataaac tcctaaatgc gtgcttgtca tcctctagtt ttttttttaa 240  
gttgaatttc ttttccactg taacttaaga tttgagattg aggtttgagg tccagaacat 300  
accctcagca gatacagtga ctaactggaa agtgcagttg ttcaaggctc gtcattgctca 360  
atcacccata agctataatt tgtttgatat attaagcatg tagacctagt gcagcatggg 420  
agccactcag gaagtttatg caattaataa actttcagca taatttacta tgaagtatgc 480  
agaatttcac cctcttctcc acacttaaca tttagttgta tatgtgaact ctcctttctt 540  
aattggggaa tgtncattat atagaatgtt ggtaaaggta attttaatcc tttttgacat 600  
taaccttttt ttttttttgg taaaccaagt gatctgnctt ttaacaactg gcttattttg 660  
gtcctttgna actgggaatt ttatttcatt tgnnccctcg cc 702

<210> 272  
<211> 736  
<212> DNA  
<213> Homo Sapien

<220>  
<221> misc\_feature  
<222> (1)...(736)  
<223> n = A,T,C or G



```

<400> 272
gnnnttttgan nnnnnnnnnn ntatagggcg aattgggccc tctagatgca tgctcgagcg      60
gccgccagtg tgatggatat ctgcagaatt cgccctttcg agcgcccgcc cgggcaggta      120
ctttttttta ttccctcagtt aaaacatgcc tgttattctt tttgtaatac ttaagcaatt      180
ttattttaaa gatatactac ttagttcacc cgtctccact tgtttttttt ttttggnant      240
anngggttgg ttccnttaan nccacnggtt ttaaanccat nntngtcnnn ggnaaattan      300
nnttantnat taaanntnnn tnnctngca aanntccagn taaaatttta gtgggggggg      360
ggggttantt acnggnaann aattaantnc nggnaatan ttaannntt ggnaangnac      420
nntngnnnta annattattt nnttnanntt ttaataaann annaatttta ntttgnacn      480
ntggtnttta ntaannggaa annccaatta attggttggg tgnatttttc ccagnaaccn      540
ntccntgggc nggaacnncc ntangggnaa nttcnagnnn ntngngggcn gtncnnaggg      600
nnccaacnt nggccancn tggnggaann nnnngcnnna nnggttcccn ggggnaaatg      660
gtattcnggt cnaatccnnc aanttccaac ccggagnctt aangggtaan nccngggggg      720
cntanngagn gcctaa

```

<210> 273

<211> 715

<212> DNA

<213> Homo Sapien

<220>

<221> misc\_feature

<222> (1)...(715)

<223> n = A,T,C or G

```

<400> 273
gngntttnac ganngnnnnn nnnnnctgct cgagcgcccg ccagtgtgat ggatatctgc      60
agaattcgcc ctttcgagcg gccgcccggg caggtacttt tttttattcc tcagttaaaa      120
catgcctggt attctttttg taatacttaa gcaattttat tttaaagata tactacttag      180
ttcatccgtc tccacttgtt tttttttttt gnnantannng ggttggttcc nttaanncna      240
cnggtnttaa anccannnnn gtcnnnggna aattannntt antcnntaaa nntnnnnnnc      300
ntggnaannn tccagntaaa atttnagtgg gggggggggg ttaattancg gnaannantt      360
aantnccgga naatatntta annnttggna angnacnttn gnnntaagna ttatttnntt      420
cannttttta atnantanna attttaattt gnaancntgg nntttanna nnggaaannc      480
caattaattg gttggttgn tttttcccag naaccnnncc ntgggcnnga acanccntaa      540
ggncaaatcn accaantgnc ggccgtacna aggggatcca acntnggcc ancctggngg      600
naataatggc cnaantgggt nccnggggna aatggnatte cgttcaaatt ccnccanntc      660
cnaccgggag ccttaagngg taaacctggg ggcctaangg ggggcctaac tcaat

```

<210> 274

<211> 746

<212> DNA

<213> Homo Sapien

<220>

<221> misc\_feature

<222> (1)...(746)

<223> n = A,T,C or G

```

<400> 274
gnnntnnnan gnntacgact cactataggg cgaattgggc cctctagatg catgctcgag      60
cggccgccag tgtgatggat atctgcagaa ttgcgcccta gcgtgggtcg gcgccaggta      120
ccagggtggc tgacgcacat cccctaaaca ttctggatct ctactcatc gtgaaaggca      180
gacgctctaa gtctaaagtc tagggtagga gtttccattc tttggaaaac caaagatggg      240
tactcttctt aatgaaactg agaagaaggt atctacagaa aacactgaat ttaaacaatt      300
tatgaccttg tttgttgaag ccatcaagga cccaagatat atcaaagaac aacatctctg      360
tattggccta caggttcaga gtgttttgag gtctgtttta gcactaatag gatttttaggc      420
cagcatccag tcagaagaga tagttcacag actcagagtt ggaaacagat taaaaaaaaa      480
aagatgtcaa catagaaaaat gatgatagag tttagttaaa aaaattcaca cataaaatta      540
cagttaaaaa aattcacaca taaaatagag tgtttgcata gcaagacatt attgcccttc      600
agcctggcag aaaaacataa actcaggtgt atattttata ataaacattg nattgaatgc      660
taagaatgat acactggtga acatctnctg aatggttgcc ttcttgtaaa tcataccaat      720

```

tggttagaca attgaaattn ccagct

746

<210> 275  
<211> 725  
<212> DNA  
<213> Homo Sapien

<220>  
<221> misc\_feature  
<222> (1)...(725)  
<223> n = A,T,C or G

<400> 275  
gnnnttaann ccttccctnt anatgcatgc tcgagcggcc gccagtgtga tggatatctg 60  
cagaattcgc ccttagcgtg gtcgcggccg aggtaccagg tgggctgacg cacatcccct 120  
aaacattctg gatctcttac tcatcgtgaa aggcagacgc tctaagtcta aagtctaggg 180  
taggagtttc cattctttgg aaaaccaaag atggttactc ttcttaatga aactgagaag 240  
aaggtatcta cagaaaacac tgaatttaaa caaattatga ccttgtttgt tgaagccatc 300  
aaggacccaa gatatatcaa agaacaacat ctctgtattg gcctacaggt tcagagtgtt 360  
ttgaggtctg ttttaagcact aataggattt taggccagca tccagtcaga agagatagtt 420  
cacagactca gagttggaaa cagattaaaa aaaaaaagat gtcaacatag aaaatgatga 480  
tagagtttag ttaaaaaaat tcacacataa aattacagtt aaaaaaattc acacataaaa 540  
tagagtgttt gcatagcaag acattattgc ccttcagcct ggagaaaaaa cataaactca 600  
ggtgtatatt ttataataaa cattgnattg aatgctaaga atgatcactg ttgaacatct 660  
cctgaatggt ttgccttctt gtaaatcata ccaatgggta gacaattgaa attccagctc 720  
tttct 725

<210> 276  
<211> 744  
<212> DNA  
<213> Homo Sapien

<220>  
<221> misc\_feature  
<222> (1)...(744)  
<223> n = A,T,C or G

<400> 276  
nnnnntgann gtatacgact cactataggg cgaattgggc cctctagatg catgctcgag 60  
cggccgccag tgtgatggat atctgcagaa ttccgccctta gcgtggctgc ggccgaggta 120  
cttctgctgt ggtaactcaa gtaacccctc gtttaaacca ggacagacct atgctgacaa 180  
ccatttttat cactcttagt ggtattttct ttctttgaac atgaatgcat atttctgctc 240  
tttaaatggcc ttttggtatt aagattacat tcagctagtc tccttattgc atgttgtttt 300  
attccagctc caccagcact cagaacaaca gcaagtgtgt gtaacagcgg gcacaggcgc 360  
tccagacgga aggacctcac tgacgcagtt agctcaggta gagcttattt ctgtgttcaa 420  
ttttcttgct atgagaagca gtgaccccta agaatttgta tccctttggt cacttctttg 480  
ttttaggaga gaaacttcta aagcattact ctaaaagggt atagagacag agacgggcca 540  
ttttcatcta ccccttgacag agttaagttt tattacagta agttgtgagg tgagacatga 600  
tggtgcagc cacaatagta agatctaccc ttctaaggaa ataaaacggg gaaaagtggg 660  
tgaatgtcca atatagaaaa ttaaatcacc actttcccaa aaaagaataa atggaggact 720  
ncattggaat tatggaaatg aaan 744

<210> 277  
<211> 724  
<212> DNA  
<213> Homo Sapien

<220>  
<221> misc\_feature  
<222> (1)...(724)  
<223> n = A,T,C or G

<400> 277  
 gnnnnnttncg antgggcccct ctatagtcgat gctcgagcgg ccgccagtgt gatggatattc 60  
 tgcagaattc gcccttagcg tggtcgcggc cgaggtactt ctgctgtggt aactcaagta 120  
 accctccggt taaaccagga cagacctatg ctgacaacca tttttatcac tcttagtggt 180  
 attttctttc tttgaacatg aatgcataat tctgctcttt aatggccttt ggtatttaag 240  
 attacattca gctagtctcc ttattgcatg ttgttttatt ccagtcaccac cagcactcag 300  
 aacaacagca agtgtgtgta acagcgggca caggcgctcc agacggaagg acctcactga 360  
 cgagtttagc tcaggttagag cttattttctg tgttcaattt tcttgtcatg agaagcagtg 420  
 acccctaaga atttgtatcc ctttgttcac ttctttgttt taggagagaa acttctaaag 480  
 cattactcta aaaggtgata gagacagaga cgggccattt tcatctaccc cttgcagagt 540  
 taagttttat tacagtaagt tgtgaggtga gacatgatgg ctgcaggcac atagtcaaga 600  
 tctacccttc taaggaaata aaacggggaa aagtgggtga atgtccaata tagaaaaattt 660  
 aatcaccact ttccaaaaaa gaataaatgg aggactncat tgtaattatg gaaatgaaat 720  
 ttgg 724

<210> 278

<211> 748

<212> DNA

<213> Homo Sapien

<220>

<221> misc\_feature

<222> (1) ... (748)

<223> n = A,T,C or G

<400> 278  
 gnnnnntgaaa gtatacgact cactataggg cgaattgggc cctctagatg catgctcgag 60  
 cggcccgcca gtgtgatgga tatctgcaga attcgccctt tcgagcggcc gcccgggcag 120  
 gtacagctgc ccaagggcgt tcgtaacggg aatgccgaag cgtgtgaaaa agggagcggg 180  
 ggcggaagac ggggatgagc tcaggacaga gccagaggcc aagaagagta agacggccgc 240  
 aaagaaaaat gacaaagagg cagcaggaga gggcccagcc ctgtatgagg acccccaga 300  
 tcagaaaacc tcacccagtg gcaaacctgc cacactcaag atctgctctt ggaatgtgga 360  
 tgggcttcga gcctggatta agaagaaagg attagattgg gtaaaggaag aagccccaga 420  
 tatactgtgc cttcaagaga ccaaatgttc agagaacaaa ctaccagctg aacttcagga 480  
 gctgcctgga ctctctcadc aatactggtc agctccttcg gacaaggaag ggtactagca 540  
 actaaccatg gttaaaaggc cttagtccga attacaaaaa caaaacattt agagtaatac 600  
 ttatgaatac aagcataatt gggtcctcgc cttctacaaa taaccatctt gaaaatgata 660  
 aaagcagggt tcaactgtgg tcttctctca ttgagaaggt gcagatacac atgggtgatc 720  
 tactgattta ctttcttgaa agtnctcg 748

<210> 279

<211> 727

<212> DNA

<213> Homo Sapien

<220>

<221> misc\_feature

<222> (1) ... (727)

<223> n = A,T,C or G

<400> 279  
 gnnnnnttcca ntgggcccctc tngngcatgc tcgagcggca cgccagtgtg atggatatct 60  
 gcagaattcg ccttttcgag cggccgcccc ggccaggtaca gctgcccag ggcttcgta 120  
 acgggaatgc cgaagcgtgt gaaaaaggga gcggtggcgg aagacgggga tgagctcagg 180  
 acagagccag aggccaaaga gagtaagacg gccgcaaga aaaaatgaca agaggcagca 240  
 ggagagggcc cagccctgta tgaggacccc ccagatcaga aaacctcacc cagtggcaaa 300  
 cctgccacac tcaagatctg ctcttggaat gtggatgggc ttcgagcctg gattaagaag 360  
 aaaggattag attgggtaaa ggaagaagcc ccagatatat tgtgccttca agagacccaa 420  
 tgttcagaga acaaaactacc agctgaactt caggagctgc ctggactctc tcatcaatac 480  
 tggtcagctc cttcggacaa ggaagggtag tagcaactaa ccatgggtta aaggtcttag 540  
 tcagaattac aaaaacaaaa catttagagt aatacttatg aatcaagcat aattggttcc 600  
 tcgccttcta caaataccat ctttgaaaaa gatnaaaagc aggtttcaac tgtggttctt 660

ctctcanttg aaaaggtcag atcccatggg tgatctactg atttaccttc tgaaaagtac 720  
ttggccg 727

<210> 280  
<211> 751  
<212> DNA  
<213> Homo Sapien

<220>  
<221> misc\_feature  
<222> (1)...(751)  
<223> n = A,T,C or G

<400> 280  
gnnnntgann gtatacgact cactataggg cgaattgggc cctctagatg catgctcgag 60  
cgcccgccag tgtgatggat atctgcagaa ttcgccctta gcgtggctgc ggccgaggta 120  
ctcatgtatt tttttttttt tccagatctc tttccccaag ttgctattgt aagagtattc 180  
tgctgcgtgt ggatgcagtt atacacatta aagcagatct ggagtctgaa gtagctataa 240  
agcagctata aaacagaaat acatgcatag ctgcagaaac catgatagggt agaggacttt 300  
tcttttggtt ttgttttggt ttgttttggt ttgttttggt ttttacagag aagagatttt 360  
tattacaaag aaaaaaattc cagtgaattg tgcagaaatg ctgggtttta caccatccta 420  
aagaaaaact ttacaagggt gttttggagt agaaaaagg ttataaagggt ggaatcctaa 480  
attgtaaaat taaccattga gtgtcaaatg tctaaaaagca gaactcattt tgtgcaatga 540  
acataaggaa agactactgn atagggtttt tttttctcct tttaaatgaa gaaaagcttt 600  
gcttaagggt tgcatacttt tattggagta aatctgaatg atcctactcc tttggagtaa 660  
aactagtgtc taccagtttc caattggatt taacttctgg ggtggaattt ggaaaaaaa 720  
agaannnnngg aaaaagaaaa cctaanttaa n 751

<210> 281  
<211> 727  
<212> DNA  
<213> Homo Sapien

<220>  
<221> misc\_feature  
<222> (1)...(727)  
<223> n = A,T,C or G

<400> 281  
gnnnttcgan tgggccctct agatgcattc tcgagcggcc gccagtgtga tggatatctg 60  
cagaattcgc ccttagcgtg gtcgcggccg aggtactcat gtattttttt ttttttcag 120  
atctctttcc ccaagtgtct attgtaagag tattctgctg cgtgtggatg cagttataca 180  
cattaaagca gatctggagt ctgaagtagc tataaagcag ctataaaaca gaaatacatg 240  
catagctgca gaaaccatga taggtagagg acttttcttt tgggtttggt ttgttttggt 300  
ttgttttggt tttggtttta cagagaagag atttttatta caaagaaaaa aattccagtg 360  
aattgtgcag aaatgctggt ttttacacca tcctaaagaa aaactttaca aggggtgttt 420  
ggagtagaaa aaaggttata aagttggaat cttaaatgtt aaaattaacc attgagtgtc 480  
aaagttctaa aagcagaact cattttgtgc aatgaacata aggaaagact actgnatagg 540  
ttttttttt ctccttttaa atgaagaaaa gctttgctta aggggtgcat acttttattg 600  
gagtaaatct gaatgatcct actccttttg agtaaaacta gngcttccag tttccaattg 660  
gatttaactt ctggntggaa tttgnaaaaa aaagaanaaa aggaaaanga aaccctaant 720  
naaatag 727

<210> 282  
<211> 749  
<212> DNA  
<213> Homo Sapien

<220>  
<221> misc\_feature  
<222> (1)...(749)  
<223> n = A,T,C or G

```

<400> 282
tnnaaagnaa gctctttact cactatnngg gccaattggg cctcttagat gcatgctcga      60
gcggcccgcca gtgtgatgga tatctgcaga attctncctt cgagcgggccg cccgggcagg      120
tacttttttt tttttttttt tttttttttt ttttttnaac tactaggatt tactgttagga      180
taaaagctnt acatggccct gcntacaaac tttctgcata cttctgcaaa tttttatgcn      240
ttactnaatc cattaaaaat caccttggaa naaactgcaa acncantana aactaaatga      300
natagtcaca gagaacanca aaaatagtaa ttnaagtgtc catacaacat caagtgtgtg      360
cagtctattt tnggttcttc gggttctctt taaaattgaa ttgagtttgn atatgcatat      420
gtatgtagga gtggaggatg gaattaatta tcccaaacat cctacantca ctctctaat      480
atttcttng ttaacatgca aatctgttct cttcattacg gngatactgc atttacatta      540
caacacantt agagatcatt aactttctcc tttataatca gccattttca caggcctttg      600
atatacaagc acctataata tattcttact catctcacac tttcatttac caaagtgtca      660
aaacaacatt tttacatcat tgatatttgg ttnantttct gcaanctggc tggtanaaaa      720
tgattacttc tnttaaatta ccttttanc                                     749

```

<210> 283

<211> 730

<212> DNA

<213> Homo Sapien

<220>

<221> misc\_feature

<222> (1)...(730)

<223> n = A,T,C or G

```

<400> 283
gtctntgaan cnggncctct ngatgcatgc tcgagcggcc gccagtgtga tggatatctg      60
cagaattcgc ccttcgagcg gccgcccggg cagggtacttt tttttttttt tttttttttt      120
tttttttttc aaactactag gatttactgt aggataaaaag cntnacatgg ccttgcatac      180
aaactttntg catacttntg caaattttta tgcattactc aatccattaa aaatcacctt      240
ggaanaaaact gcaaacncaa tagaaactaa atganatagt cacagagaac aacaaaaata      300
gtaatttaag ttcccataca acatcaagtg tgttcagtct atttttggtt ctccgggttc      360
tctttaaaat tgaattgagt ttgtatatgc atatgtatgt aggantggag gatggaatta      420
attatcccaa acatcctaca ctcactcttc taatatttct tttgttaaca tgcaaatctg      480
ttctcttcat tacgnggata ctgcatttac attacaacac aattagagat cattaacttt      540
ctcctttata atcagccatt ttcacaggcc tttgatatac aagcacctat aatataattct      600
tactcatctt acactttcat ttaccaaagt gtcaaaaaca acatttttac atcattggat      660
atttggttta gtttctgcaa nctggctttt anaaaaatga ttacttctct taaattacct      720
tttaccctca                                     730

```

<210> 284

<211> 739

<212> DNA

<213> Homo Sapien

<220>

<221> misc\_feature

<222> (1)...(739)

<223> n = A,T,C or G

```

<400> 284
gnmntnaaag tatacgactc actatagggc gaattgggcc ctctagatgc atgctcgagc      60
ggccgccagt gtgatggata tctgcagaat tcgcccttag cgtgggtcgc gccgaggtag      120
aacataaagc aacagagagg tcttcatgtt tgggaagtgg ctgggcagga tgccaaaccc      180
caaatgactt attgagcaat ttctaaacca aacagagagg taggaaaaga ggatgggggt      240
caggggtgga ggctgtggaa aggggagagc gagggctgaa gagaatggca gccatacagg      300
tgttttgttt ttatttccac atctgaggac tgagagtctg atttgcgtgc tgtccatttc      360
cgccactcat tgactgtcca tagttcatca tgccattggc tccatagaag ttcattcccag      420
ccatctgctg ggtcatctga gtaagggtcc attgcagctg ctgagctggc tggaccccat      480
acacagtctg gggcatagct gccatgcctg ccatgtagcc agcctgctgg gtggatcatca      540
ttccattcgg cacaccatc attgatgcct gcatgccacc catatagcct gcaggcatgg      600

```

```
ccatgggggc aaccatccca gaactnctgc tgagcaacca tgcctactgg tgggaagcatc 660
atgcttccca ttatgctggt angangtgta cccnngggaa actggggtag ctgtgggata 720
tccatctgan ccggaccat 739
```

<210> 285

<211> 721

<212> DNA

<213> Homo Sapien

<220>

<221> misc\_feature

<222> (1)...(721)

<223> n = A,T,C or G

<400> 285

```
gnnnnttcgan tgggccctct ngatgcatgc tcgagcggcc gccagtgtga tggatatctg 60
cagaattcgc ccttagcgtg gtcgcggcac gaggtacaac ataaagcaac agagaggtct 120
tcatgtttgg gaagtggctg ggcaggatgc caaaccccaa atgacttatt gagcaatttc 180
taaaccaaac agagaggtag gaaaagagga tgggggtcag ggggtggaggc tgtggaaagg 240
ggagagcggag ggctgaagag aatggcagcc atacagggtg tttgttttta tttccacatc 300
tgaggactga gagtctgatt tgctgcctgt ccatttcgc cactcattga ctgtccatag 360
ttcatcatgc cattggctcc atagaagttc atcccagcca tctgctgggt catctgagta 420
aggttccatt gcagctgctg agctggctgg accccataca cagtctgggg catagctgcc 480
atgectgcca tgtagccagc ctgctgggtg gtcattcatt cattcggcac acccatcatt 540
gatgcctgca tgccaccatc atagcctgca ngcatggcca tgggggcaac catcccagaa 600
ctcctggctg agcaaccatg cctactgggt gangcatcat gcttcccatt atgctgtag 660
gangtgtagc ccgggggaanc tggggtagct gtgggatatc catttaaccg gagccatgaa 720
c 721
```

<210> 286

<211> 757

<212> DNA

<213> Homo Sapien

<220>

<221> misc\_feature

<222> (1)...(757)

<223> n = A,T,C or G

<400> 286

```
gnnnnttaaa gnntacgact cactataggg cgaattgggc cctctagatg catgctcgag 60
cggcccgcca gtgtgatgga tatctgcaga attcgccctt tcgagcggcc gcccgggcag 120
gacgcggggg ttgcaccatg gcgtccatgg ggaccctcgc ctccgatgaa tatgggcgcc 180
ctttcctcat catcaaggat caggaccgca agtcccgctt tatgggactt gagggccctca 240
agtctcatat aatggcagca aaggctgtag caaatacaat gagaacatca cttggaccaa 300
atgggcttga taagatgatg gtggataagg atggggatgt gactgtaact aatgatgggg 360
ccaccatctt aagcatgatg gatgttgatc atcagattgc caagctgatg gtggaactgt 420
ccaagtctca ggatgatgaa attggagatg gaaccacagg agtggttgct ctggctgggtg 480
ccttgttaga agaagcggag caattgctag accgaggcat tcaccaatc agaatagccc 540
gatggctatg agcaggctgc tcgcgttgct attgaacacc tggacaagat cagcgatagc 600
gtccttggtt acataaagga caccgaaccc ctgattcaga cagcaaaaaa ccacgctggg 660
cttncaaaag tgggtcaacag ttgtcaccga cagatggctt gaaaattgct gtgaaatgcc 720
cgtccttact gtaaccagat atngaaccgg aaaagac 757
```

<210> 287

<211> 726

<212> DNA

<213> Homo Sapien

<220>

<221> misc\_feature

<222> (1)...(726)

<223> n = A,T,C or G

<400> 287

gnnnnactga	tttctggctc	gaagttgnat	ntgcggnccg	cagtgatgat	gatattctgca	60
gaattcgccc	tttcgagcgg	ccgcccgggc	aggacgcggg	ggttgcacca	tggcgtccat	120
ggggaccctc	gccttcgatg	aatatgggcg	ccctttcctc	atcatcaagg	atcaggaccg	180
caagtcccg	cttatgggac	ttgaggccct	caagtctcat	ataatggcag	caaaggctgt	240
agcaaataca	atgagaacat	cacttgacc	aaatgggctt	gataagatga	tggaggataa	300
ggatggggat	gtgactgtaa	ctaagtatgg	ggccaccatc	ttaagcatga	tggatgttga	360
tcatcagatt	gccaaagctga	tggaggaaat	gtccaagtct	caggatgatg	aaattggaga	420
tggaaaccaca	ggagtgggtg	tcctggctgg	tgccttggtt	gaagaagcgg	agcaattgct	480
agaccgaggg	attcacccaa	tcagaatagc	ccgatggcta	tgagcaggct	gctcgcgttg	540
ctattgaaaca	cctggacaag	atcagcgata	gcgtccttgn	tgacataaag	gacaccgaac	600
ccctgattca	gacagcaaaa	accacgctgg	gctccaaaag	tggatcaacag	ttgtcaccga	660
cagatggctg	aaaatgctgt	gaatgccgtc	ctnctgtanc	agatatngaa	ccggaaaaga	720
ccttga						726

<210> 288

<211> 743

<212> DNA

<213> Homo Sapien

<220>

<221> misc\_feature

<222> (1)...(743)

<223> n = A,T,C or G

<400> 288

gnnntganng	tatacgactc	actatagggc	gaattggggc	ctctagatgc	atgctcgagc	60
ggccgccagt	gtgatggata	tctgcagaat	tcgcccttcg	gccgcccggg	caggtacctt	120
ttacctaaaa	ttctagccac	tttaatttgg	agagtttcca	gagcaaaggg	cacagatccc	180
aggcataaca	acgcttttgc	tatacagcaa	ccaatatctt	gtcaacccaa	gaaagtctct	240
ccattgatac	ctagtagaaa	tagcccagtt	tttaaagtcc	tcaaaactgt	aacaaattac	300
ttgtttttta	aatttaactt	aaattaatac	aatcagattt	ttgtgttatt	tgggtattag	360
agtatgttaa	agcacatata	tcccagagac	atagagtttc	cgtttcaaaa	agtcattgat	420
tcatgtgtgc	taatgacaat	cctatcctga	cccgtatgt	gacttgtatc	tctaaaccat	480
aggctttctc	gaattttatc	tgttaattta	accctgattt	ctcagcagca	gcttctcttt	540
gtaaatagac	ttgcctcttc	tgtgtctgac	ctctgctcct	cataatcaga	ttaactcaga	600
taaaagtgtc	tcagggaaga	ggtcaaaaacc	gttgccaaaa	atagtagttg	ccctacttca	660
gtctattttc	aacagagtag	cccaggagat	ctgtcacacc	aaagtccaat	cagccctact	720
ggtagcactc	tgntcacaag	ccn				743

<210> 289

<211> 726

<212> DNA

<213> Homo Sapien

<220>

<221> misc\_feature

<222> (1)...(726)

<223> n = A,T,C or G

<400> 289

gnnnnnactc	gcagtcctgc	tagatgcatg	ctcgagcggc	cgccagtgtg	atggatatct	60
gcagaattcg	cccttcggcc	gcccgggcag	gtacctttta	cctaaaaattc	tagccacttt	120
aatttggaga	gtttccagag	caaagggcac	agatcccagg	cataacaacg	ctttgcgtat	180
acagcaacca	atatcttgtc	aaccacaaga	agttcctcca	ttgataccta	gtagaaatag	240
cccagttttt	aaagtcctca	aaactgtaac	aaattacttg	tttttaaaat	ttaacttaaa	300
ttaatacaat	cagatttttg	tgttatttgg	gtattagagt	atgttaaagc	acatatatcc	360
cagagacata	gagtttccgt	ttcaaaaagt	catgcattca	tgtgtgctaa	tgacaatcct	420
atcctgaccc	gctatgtgac	ttgtatctct	aaaccatagg	ctttcctgaa	ttttatctgt	480
taatttaacc	ctgattttct	agcagcagct	tctctttgta	aatagacttg	cctcttctgt	540

gtctgacctc	tgctcctcat	aatcagatta	actcagataa	agctgcttca	gggaagaggt	600
caaaaccgtt	gcaaaaaata	gtagttgccc	tacttcagtc	tattttcaac	agagtagcca	660
ggagatctgt	tcacaccaa	gtccaatcag	ccctactggt	agcactctgc	tcacaagcct	720
ncagtg						726

&lt;210&gt; 290

&lt;211&gt; 740

&lt;212&gt; DNA

&lt;213&gt; Homo Sapien

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(740)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 290

gnnnnngaaag	tatacgactc	actatagggc	gaattggggc	ctctagatgc	atgctcgagc	60
ggcccgccagt	gtgatggata	tctgcagaat	tcgcccttag	cgtggtcgog	gccgaggtag	120
ccagatgtct	ttctcgggtc	ccttcccag	accatttaag	acctccctag	ctgctcggtc	180
tccagcctca	actgcccctt	ccatgtagcc	gtccacttt	gtggcagctc	ctgtgcccgc	240
aaagaaaatc	ctgcccacgg	gttgacgaat	cacccttcca	tattgagtc	tgatcccagg	300
agggaaagtag	gccgtgtagc	agccccaga	gtacctgccc	gggcggccgc	tcgaaagggc	360
gaattccagc	acactggcgg	ccgttactag	tggtaccgag	ctcggtagca	agcttggcgt	420
aatcatggtc	atagctgttt	cctgtgtgaa	attgttatcc	gtcacaatt	ccacacaaca	480
tacgagccgg	aagcataaag	tgtaaaagcct	gggggtgcct	atgagtgagc	taactcacat	540
taattgcggt	gcgctcactg	cccgttttcc	agtcgggaaa	cctgtcgtgc	cagctgcatt	600
aatgaatcgg	ccaacgcgcc	ggggagaggg	ggnttgcgta	ttgggcgctc	ttncgctttc	660
tngctcactg	actcgctgcg	ctcggtcggt	cggctgcggc	nagcgggtatc	agctcattaa	720
angcggtaat	acggtatccn					740

&lt;210&gt; 291

&lt;211&gt; 724

&lt;212&gt; DNA

&lt;213&gt; Homo Sapien

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(724)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 291

gnnnnnnncna	ntggggccctc	tnngncatgc	tcgagcggcc	gccagtggtga	tggtatctctg	60
cagaattcgc	ccttagcgtg	gtcgcggccg	aggtaccag	atgtctttct	cggtcacctt	120
cccagagacca	tttaagacct	ccctagctgc	tcggtctcca	gcctcaactg	ccccttccat	180
gtagccgctc	cactttgtgg	cagtctctgt	gcccgcaaag	aaaatcctgc	ccacgggttg	240
acgaatcacc	cttccataatt	gagtcgatgat	cccaggaggg	aagtaggccg	tgtagcagcc	300
cccagagtag	ctgcccgggc	ggccgctcga	aagggcgaat	tccagcacac	tgccggccgt	360
tactagtggg	tccgagctcg	gtaccaagct	tgccgtaatc	atggtagatg	ctgtttcctg	420
tgtgaaattg	ttatccgctc	acaattccac	acaacatacg	agccggaagc	ataaagtgtg	480
aagcctgggg	tgccataatga	gtgagctaac	tcacattaat	tgctttgcgc	tcactgcccg	540
ctttccagtc	gggaaacctg	tcgtgccagc	tgcattaatg	aatcgcccaa	cgcgcgggga	600
gagcggtttt	gcgtattggg	cgctcttccg	cttctcgtct	cactgactcg	ctgcgcttng	660
nccgtccggg	tgccgcagcg	gtataactna	ctcaaaggcg	gtaataccgg	tatncacaga	720
atca						724

&lt;210&gt; 292

&lt;211&gt; 740

&lt;212&gt; DNA

&lt;213&gt; Homo Sapien

&lt;220&gt;

&lt;221&gt; misc\_feature



&lt;222&gt; (1)...(740)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 292

gnnnnngnang	tatacgactc	actatagggc	gaattggggc	ctctagatgc	atgctcgagc	60
ggcccgccag	tgtgatggat	atctgcagaa	ttcgccctta	gcgtgggtcg	ggccgaggta	120
cagaaagaat	caaaagaacat	atatatatat	taagtttcat	tccaacctac	aaagagcctg	180
cacttaaaag	tcttaaaggt	ttcctgaatc	atggaaatct	aacttacctg	ccaattaatc	240
cagttctctc	tttttaaagt	cagactccaa	ccttaaacag	aaggcatatt	ctagctgact	300
tctaagtgtg	tccaaagcat	acctcagaga	gccaaagtgt	ctgtgttcaa	tacctattct	360
ttctatagaa	tctcaaaagt	ggcagtatga	tgaaaagaaa	agctactttt	tctcctaaaa	420
atacccccct	tcacatcatg	tgtgttgatc	tttttgcatc	acaaagaata	gacattctaa	480
atgttccctt	ccacacagaa	agacataaga	gagaatgtga	gtatgagtga	gagtgtgtag	540
gtaagttgag	ggatagtttg	ctatccaaaa	tgaatcattt	tgaagatgac	tttgtaaaga	600
agtaatatag	ttaaaaatct	caagacatga	gattgangan	ggcagggaaa	taaaggacct	660
angaatggaa	aagagttaca	gcccatgtga	atacatcac	aaacctacca	ggttatttct	720
ngnaattctc	acacaggttg					740

&lt;210&gt; 293

&lt;211&gt; 723

&lt;212&gt; DNA

&lt;213&gt; Homo Sapien

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(723)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 293

gnnnnnnncn	annggcctc	tagatgcatg	ctcgagcggc	cgccagtgtg	atggatatct	60
gcagaattcg	cccttagcgt	ggtcgcggcc	gaggtacaga	aagaatcaaa	gaacatatat	120
atatattaag	tttcattcca	acctacaaag	agcctgcact	taaaagtctt	aaaggtttcc	180
tgaatcatgg	aatctcaact	tacctgccaa	ttaatccagt	tctctctttt	taaatgcaga	240
ctccaacctt	aaacagaagg	catattctag	ctgacttcta	agtgtgtcca	aagcatacct	300
cagagagcca	agtgggtctg	gttcaatacc	tattctttct	atagaatctc	aaaagtggca	360
gtatgatgaa	aagaaaagct	actttttctc	ctaaaaatac	cccccttcat	catcagtgtg	420
ttgtcatttt	tgcacacaaa	agaatagaca	ttctaaatgt	tcccttccac	acagaaagac	480
ataagagaga	atgtgagtat	gagtgcagag	gtgtaggtaa	gttgagggat	agtttgctat	540
ccaaaatgaa	tcattttgaa	gatgactttg	taaaagaagta	atatagttaa	aaatctcaag	600
agcatgagat	tganganggc	agggaaaata	angcctagga	atggaaaaga	gttaacagcc	660
catgtgaata	catagcacia	acctaccagg	ttattttctg	gaatctnacc	agtttgctgg	720
aaa						723

&lt;210&gt; 294

&lt;211&gt; 736

&lt;212&gt; DNA

&lt;213&gt; Homo Sapien

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(736)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 294

gnnnnnnnna	gaccgactca	ctatagggcg	aattggggcc	tctagatgca	tgctcgagcg	60
gccgccagtg	tgatggatat	ctgcagaatt	cgccctttcg	agcggccgcc	cgggcaggta	120
cctgggatta	caggcaccca	ccaccacgcc	tggtcaattt	ttttttgtat	ctttagtagg	180
gttttgccat	gttgggccagg	ctgggtcttta	actcctacct	cgtgatccac	ccgcctcggc	240
cccccaaagt	gctaggacca	caggcggtgag	ccaccacgcc	cagccccctg	tctctttttt	300
taaaacacaa	tttaaaagca	gaaagaaaaa	atctgtgtctg	tttagactca	gattcttaat	360
tagctagtat	ttcttaattc	aatcaataaa	ttattaagac	cttttcaactg	ctcccttttt	420
aaagtcttct	ttggagtgat	ttaagtgtct	cttattacca	agctctcaaa	gagaagataa	480

```

aattaaaaatc tgatgggtaa ccattttaat aagacaactg gggtaaccca tttctccagg 540
acccctctct gcaacagaga gctattctct ttctttggcc tagtaaacct ctgctcttaa 600
ccttttaaaaa aaaaaaaaaa gtacctcggc cgcgaccacg ctaanggcga attccagcac 660
actggcgggc gttactagt gattcgaact cggtcctcaact tggcgtaac atggcatagt 720
ggttctctgng tgaaan 736

```

&lt;210&gt; 295

&lt;211&gt; 725

&lt;212&gt; DNA

&lt;213&gt; Homo Sapien

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(725)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 295

```

gnnnnnnnnn anngngccct ctagatgcat gctcgagcgg ccgccagtgt gatggatata 60
tgcagaattc gccctttcga gcggccgccc gggcaggtag ctgggattac aggcacccac 120
caccacgcct ggctaatttt tttttgtatc ttttagtaggg ttttgccatg ttggccaggc 180
tgggtctttaa ctctacctc gtgatccacc cgctcggcc ccccaaagtg ctaggaccac 240
aggcgtgagc caccacgccc agccccctgt ctcttttttt aaaacacaat ttaaaagcag 300
aaagaaaaaa tctgtgctgt ttagactcag attcttaatt agctagtatt tcttaattca 360
atcaataaat tattaagacc ttttcaactgc tcccttttta aagtcttctt tggagtgtatt 420
taagtgtctt ttattaccaa gctctcaaag agaagataaa attaaaatct gatgggtaac 480
catttaaata agacaactgg ggtaacccat ttctccagga cccctctctg caacagagag 540
ctattctctt tctttggcct agtaaacctc tgctcttaac ctttaaaaaa aaaaaaaaag 600
tacctcgggc gcgaccacgc taaggcgcaa ttccagcaca ctggcgggcg ttactagtgg 660
atccgaactc ggtaccaagc ttgcgtaatc atggcatagc tggttctctg gtgaaatggt 720
atccg 725

```

&lt;210&gt; 296

&lt;211&gt; 742

&lt;212&gt; DNA

&lt;213&gt; Homo Sapien

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(742)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 296

```

gnnnnnnnnn nnacaaanct gggtaggggc aattggggcc tctagatgca tgctcgagcg 60
gccgccagtg tgatggatat ctgcagaatt cgccctttcg agcggccgcc cgggcaggta 120
ccatgctgac ttcttggtat cttttaaggc ctaattttcc ctctcttgag attactgtag 180
tgtgttccag ctaatttcta tttggaaaag agttggaaca gctgaaaact aggtattatt 240
gaaggcaaaag cagcctcacg tcagtgtttt atcagctcat ttgggaagtt tttttttttt 300
ttttttttta attaattaga aagtaggctg ggcacggtgg ctcatgccta taatcccagc 360
acttggggag gccgaggatc tcctctctgg tggatcactt gagggcagga gttaagagac 420
catctgggcc aacatgatga aaccctgtct ctactaaaaa tacaaaaagt agctgggcgt 480
ggtggcatac ttttacaatc ccagctactt gggaggctga ggcaggagaa tcacttgaac 540
ctaggaagca gaggttgcag tgggccaaga tcacaccact atactctagc ctgggcgaca 600
gaagtgggga aaaaagtagg acccctgtcc tatattcang gttttctcac atatatgaac 660
ccatctaaat tctacgttgg taaaaggaac ctaagggttaa ttagnctata cttatttaag 720
aaccattntg gggnggagat gg 742

```

&lt;210&gt; 297

&lt;211&gt; 728

&lt;212&gt; DNA

&lt;213&gt; Homo Sapien

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(728)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 297

tnnnntttga	anncnacnct	ctagngcagc	ctcgagcggc	cgccagtgtg	atggatatct	60
gcagaattcg	cccttttcgag	cggccgcccc	ggcaggtacc	atgctgactt	cttggatatct	120
tttaaggcct	aattttccct	tccttgagat	tactgtagt	tggtccagct	aatttctatt	180
tggaacgag	ttggaacagc	tgaaaactag	gtattattga	aggcaaagca	gcctcacgtc	240
agttttttat	cagctcattt	gggaagtttt	tttttttttt	tttttttaat	taattagaaa	300
gtaggctggg	cacggtggct	catgcctata	atcccagcac	ttggggaggc	cgaggatctc	360
ctctctgggt	gatcacttga	gggcaggagt	taagagacca	tcctggccaa	catgatgaaa	420
ccctgtctct	actaaaaata	caaaaagtag	ctgggcgtgg	tggcatactc	ttacaatccc	480
agctacttgg	gaggctgagg	caggagaatc	acttgaacct	aggaagcaga	ggttgacgtg	540
ggccaagatc	acaccactat	actctagcct	gggcgacaga	agtggggaaa	aaagtaggac	600
ccctgtccta	tattcangtt	tttctcacat	atatgaaccc	atctaaatc	tacgttggtg	660
aaggtaacct	aagttaatta	gnctatactt	atttaaganc	aatatggggt	gaaaatggat	720
tttttttn						728

&lt;210&gt; 298

&lt;211&gt; 745

&lt;212&gt; DNA

&lt;213&gt; Homo Sapien

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(745)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 298

gnnnnnnttna	nnnnnatacga	ctcactatat	agggcggaatt	gggccctcta	gatgcagtgt	60
cgagcggccg	ccagtgtgat	ggatatctgc	agaattcgcc	cttagcgtgg	tcgcggccga	120
ggtaccacacg	ttttgctcca	cactccttga	ccgcaggggc	tcggacacaa	acccctgtca	180
ccaggagagt	cagtcagcac	tacttgggag	ggctaaagg	aaatttgga	ataaaattcc	240
aaagtttgga	gtaaaaaaat	tcaagtgttg	attttatatt	ctttcccttt	ctgacacagc	300
ctaaaagcgt	gggggaacat	gtgtttatct	gtgggagata	aacaagatgg	agtcccaaag	360
actttaacaa	aatatttttt	taaaaatcca	ctagaataga	aaatacatta	tttagatata	420
ctttatgctg	agagttagta	tatatgcttg	tcctatttta	acttgtgaga	aaaagtggta	480
tccttgata	catttagaaa	tatgggggct	atcttggttc	attgtggggg	tggggcagaa	540
ggagaataaaa	tgccaggatga	ccctgttgaa	ggaatcttag	catggccaac	aggggacgtt	600
tccagtcgat	taccaggaaa	tgcaagcctt	ggggtttcta	ctggtggtgg	ggctgtcatg	660
aactttaaaa	tccaaagcct	agacaaggaa	aagtgttaga	ccaattgaaa	agcaatccac	720
cctttttttt	tttttttttt	ggctt				745

&lt;210&gt; 299

&lt;211&gt; 733

&lt;212&gt; DNA

&lt;213&gt; Homo Sapien

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(733)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 299

gnnnnnnnnn	nnnnnnncct	ctagatgctg	ctcgaacggc	cgccagtgtg	atggatatct	60
gcagaattcg	cccttagcgt	ggtcgcggcc	gaggtaccca	cgttttgctc	cacactcctt	120
gaccgcagg	gctcggacac	aaacccctgt	caccaggaga	gtcagtcagc	actactggg	180
agggctaaag	ggaaatttgg	aaataaaatt	ccaaagtgtg	gagtaaaaaa	attcaagtgt	240
tgattttata	ttctttccct	ttctgacaca	gcctaaagcg	tagggggaac	atgtgtttat	300
ctgtgggaga	taaacaagat	ggagtcccaa	agactttaac	aaaatatttt	tttaaaaatc	360
cactagaata	gaaaatacat	tatttagata	tactttatgc	tgagagtggg	tatatatgct	420

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tgctctatatt aaacttggtga gaaaaagtggt tatcccttga tacatttaga aatatggggg 480
ctatcttggt tcattgtggg ggtggggcag aaggagaata aatgccagga tgaccctggt 540
gaaggaatct tancatggcc aacaggggac gtttccagtc gattaccagg aaatgcaagc 600
cttgggggtt ctactgggtg tggggctgtc atgaacnttt aaaatccaaa gcctagacca 660
aggaaaagtg ttaganccan tggaaaagcc attccagccc ttttttttn nnnnttttg 720
gcttttcacc aca 733

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<210> 300

<211> 741

<212> DNA

<213> Homo Sapien

<220>

<221> misc\_feature

<222> (1)...(741)

<223> n = A,T,C or G

<400> 300

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gnnnntgann gtatacgaac tcactatagg gcgaattggg ccctctagat gcatgctcga 60
gcggccgccca gtgtgatgga tatctgcaga attcgccctt tcgagcggcc gcccgggcag 120
gtacgtagtc taggccatat gtgttgagga ttgagactag tagggctagg cccaccgctg 180
cttcgcaggc ggcaaagact agtatggcaa taggcacaat attggctaag agggagtggg 240
tgttgagggt tatgagagta gctataatga acagcgatag tattattcct tctaggcaca 300
gtaggaggga tatgagggtg gagcgatata ctagtattcc tagaagttag atggtaaatg 360
ctagtataat atttatgtaa atgagggggc cgcgctactc aagtgggtct ctgcctctca 420
gtggtggcct tgggtcttcaa gtttcagcaa ttctgggaag ccaaggacac ctccatctcc 480
tctctcctga tctgcaactc atctaagagc agctttctca ctggaatgtc ttgtgtttaa 540
ggaacaagaa tccctgtttc cggtttgggt gcccaagtgc acctactgga tccaaccag 600
gattggagat actttgcaga acacaacatc atctggcaca tgaccagcca tgggtgttca 660
ctttcacaat ttcagcttnc ttcactgatt gcagcataat cngggtcaac accttcaaga 720
ccaaggctga tgtgggcccgc t 741

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<210> 301

<211> 724

<212> DNA

<213> Homo Sapien

<220>

<221> misc\_feature

<222> (1)...(724)

<223> n = A,T,C or G

<400> 301

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gnnnntnncn antgggccct ctngngcatn gctcgagcgg cagccagtg tgatggatat 60
ctgcagaatt cgccctttcg agcggccgcc cgggcaggta cgtagtctag gccatatgtg 120
ttggagattg agactagtag ggctaggccc accgctgctt cgcaggcggc aaagactagt 180
atggcaatag gcacaatatt ggctaagagg gagtggtgtg tgagggttat gagagtagct 240
ataatgaaca gcgatagtat tattccttct aggcacagta gggaggatat gaggtgtgag 300
cgatatacta gtattcctag aagtgagatg gtaaatgcta gtataatatt tatgtaaatg 360
agggggcccc cgtactcaag tgggtctctg cctctcagtg gtggccttgg tcttcaagtt 420
tcagcaattc tgggaagcca aggacacctc catctcctcc tccctgatct gcaactcatc 480
taagagcagc tttctcactg gaatgtcttg tgtttaagga acaagaatcc ctgtttccgg 540
tttgggtgcc caagtgcacc tactggatcc aaccaggat tggagatact ttgcagaaca 600
caacatcatc tggcacatga ccagccatgg tgtttcactt tcacaatttc agcttncttc 660
actgattgca cataatcgtg gtcaacacct tcaagaccan ggctgatgtg ggccgntaca 720
ngga 724

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<210> 302

<211> 745

<212> DNA

<213> Homo Sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(745)  
 <223> n = A,T,C or G

<400> 302  
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 agcgcccgcc agtgtgatgg atatctgcag aattcgccct ttcgagcggc cgcccgggca 120  
 ggtactattc cggatataca agatcactgg gagatgttga tgatggagac acagtgcag 180  
 atttcatggc ccaagagcga gaaagaggca ttactattca atcagctgct gttacatttg 240  
 attggaaaagg ttatagagtc aatctaattg atacaccagg tcatgtggac tttaccttgg 300  
 aggttgagcg gtgcctaaga gtgttgatg gtgcagtggc tgtatttgat gcctctgctg 360  
 gtgttagagg ccagactctc acagtatgga ggcaagctga taaacacaat atacctcgaa 420  
 tctgtttttt aaacaagatg gacaaaactg gagcaagctt taagtatgca gttgaaagca 480  
 tcagagagaa gttaaaggca aagcctttgc ttttacagt accaattggt gaagccaaaa 540  
 ctttcaaagg agtgggtgat gtatgaatga aagaaaaact tctttggaat tgcaattcaa 600  
 atgatggaaa agactttgag agaaagcccc tcttggaat gaatgatcct gaattgctga 660  
 aggaacaac tgaagcaagg aatgccttaa ttgaacaagt tgcagaattt ggatgatgaa 720  
 ttgctgactt ggggtttanaa naaat 745

<210> 303  
 <211> 724  
 <212> DNA  
 <213> Homo Sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(724)  
 <223> n = A,T,C or G

<400> 303  
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 gcagaattcg cccttttcgag cggccgcccc ggcaggtact attccggata tacaagatca 120  
 ctgggagatg ttgatgatgg agacacagtg acagatttca tggccaaga gcgagaaaga 180  
 ggcattacta ttcaatcagc tgcgtttaca tttgattgga aaggttatag agtcaatcta 240  
 attgatacac caggatcatg ggactttacc ttggagggtg agcgggtgct aagagtgttg 300  
 gatgggtcag tggctgtatt tgatgcctct gctgggttag aggccagac tctcacagta 360  
 tggaggcaag ctgataaaca caatatacct cgaatctgtt ttttaaaaa gatggacaaa 420  
 actggagcaa gctttaagta tgcagttgaa agcatcagag agaagttaaa ggcaaacgct 480  
 ttgcttttac agttaccaat tgggtgaagc aaaactttca aaggagtggg ggatgtagta 540  
 atgaaagaaa aacttctttg gaattgcaat tcaaatgatg gaaaagactt tgagagaaaag 600  
 cccctcttgg aatgaatga tcctgaattg ctgaaggaaa caactgaagc aagggaatgc 660  
 ttaattgaca agttgcagat ttggatgatg aatttgctga cttggtttta gaagaattan 720  
 tgag 724

<210> 304  
 <211> 741  
 <212> DNA  
 <213> Homo Sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(741)  
 <223> n = A,T,C or G

<400> 304  
 gnnnnnnngaa agtntacgac tcactatagg gcgaattggg ccctctagat gcatgctcga 60  
 gcggccgcca gtgtgatgga tatctgcaga attcgccctt agcgtggctg cgcccgaggt 120  
 actttataaa tgggaattttc ttctacttgt atccatttcc cggggcttat ggacccattc 180  
 atactctcca tatttagaat caaaggttcc tttctgaaga gaccttaatt ttaaggtaaa 240  
 acgtgggtcca agttcctgaa ttcccacttt cttttcactc ctgaatatgt atctgtgaaa 300  
 tctgaagaat atgtaatccc gttgattgtg gaattgtggc acctgccttc cgataaattg 360

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aggattatga ggaaagagag atgcaaacat acgtccaatt gaatgaccca gccgtgttgt 420
aaaattattc agaattattt cagggtatgtg ttctgtgggg tccttgccctc ttctcttaat 480
ttctttacga agacgaacac tgctcatttt aaaatgagca gttggggccat ttggcaagtgt 540
actcaaaata agtccatttg gggtttttacg atcttcatta ataacaatca ggtctgtgaa 600
atctcttgcg atgcactgtg gaataatttt ttccagaacc agcctcttct gtaataaaca 660
tgtgagtttg gtataactgt gganagctgt cacagagtcg taccagtata ccaaccatac 720
caactntgtt gtagagcaaa a 741

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<210> 305

<211> 719

<212> DNA

<213> Homo Sapien

<220>

<221> misc\_feature

<222> (1)... (719)

<223> n = A,T,C or G

<400> 305

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gnnnntncaa ntggggccctc tngatgcatg ctccagcgcc cgccagtgtg atggatatct 60
gcagaattcg cccttagcgt ggctcgccgc gaggtacttt ataaatggaa tttctctcta 120
cttgatatcca ttcccgggg cttatggacc cttcatact ctccatattt agaatacaag 180
gttcctttct gaagagacct taattttaag gtaaacgtg gtccaagtcc ctgaattccc 240
actttctttt cactcctgaa tatgtatctg tgaaatctga agaataatga atcccgttga 300
ttgtggaatg tggcaacctg cttccgata aattgaggat tatgaggaaa gagagatgca 360
aacatacgct caattgaatg acccagccgt gttgtaaaat tattcagaat tatttcaggt 420
atgtgttctg tggggctcct gcctcttctc ttaatttctt tacgaagacg aacctgctc 480
attttaaaat gagcagttgg gccatttggc aagtgactca aaataagtcc atttgggggt 540
ttacgatctt cattaataac aatcaggtct gtgaaatctc ttgcgatgca ctgtggaata 600
attttttcag agccagtcct cttctgtaat aaacatgtga agtttgggtat actgtggana 660
gctgtcacag agtcgacagt ataccaacca taccaactct gttgnagaac anaacccat 719

```

<210> 306

<211> 746

<212> DNA

<213> Homo Sapien

<220>

<221> misc\_feature

<222> (1)... (746)

<223> n = A,T,C or G

<400> 306

```

gnnnnntgaa agtatacgac tcactatagg gcgaattggg ccctctagat gcatgctcga 60
gcggcccgcca gtgtgatgga tatctgcaga attcgccctt tcgagcgccc gcccgggcag 120
gtactccagc ccaggcgaca gaggtagact cagtctcaaa aaaaaaaaaa atttgggcaa 180
gttatagtcc atctcatagt gttgttagga ctaatttctt catgtgctta gaaaaatgcc 240
tggcagatag gaaatggcca atattattat tattgataag atgaccattt tggagtttag 300
aaaaccattt tcaatgccta tgaaataaca actccataag ccattccctt aaatccagta 360
gactgaattc tcacaagtc tcatcactca tcatctctac atctgtctga tttacaaata 420
cttcttcata ccatgggttta tgtctttgct taatatcaag gaggatggat tccatggtag 480
agccaaactc aatgatacta cgagtctcat tttggtaagt ataagcaaaag ccagcagcat 540
gcatggccac caatgaacct tttgaatcaa acacagggga gcccggaagc cccaaagaaa 600
aattcagtg cataggtaat cacatcangg ttgtgaacta ttttctggaa acttctttga 660
gtatacatat ggacatactc tggactttct gcttttttag actgaacacg ttcttgacat 720
ttctttgctc gctgacctgt anggat 746

```

<210> 307

<211> 725

<212> DNA

<213> Homo Sapien

<220>  
<221> misc\_feature  
<222> (1)...(725)  
<223> n = A,T,C or G

<400> 307  
gnnnnntnch antggccctc tagatgcatg ctcgagcggc cgccagtgtg atggatatct 60  
gcagaattcg ccccttcgag cggccgcccg ggcagggtact ccagcccagg cgacagagtg 120  
agactcagtc tcaaaaaaaaa aaaaaatttg ggcaagttat agtccatctc atagtgttgt 180  
taggactaat ttcttcagtgt gcttagaaaa atgcctggca gataggaaat ggtcaatatt 240  
attattattg ataagatgac cattttggag tttagaaaac cattttcaat gcctatgaaa 300  
taacaactcc ataagccatt cccttaaatc cagtagactg aattctcaca agtcctcatc 360  
actcatcatt tctacatcct gctgatttac aaatacttct tcataccatg gtttatgtct 420  
ttgcttaata tcaaggagga tggattccat ggtagagcca aactcaatga tactacgagt 480  
ctcatttttg taagtataag caaagccagc agcatgcatg gccaccaatg aaccttttga 540  
atcaaacaca ggggagccgg aagcccccac gaaaaattca gtgtcatagg taatcacatc 600  
anggttgtga actattttct ggaaacttct ttgagtatac atatggacat actctggact 660  
ttctgctttt ttagactgac acgttcctga catttctttg ctcgctgacc ctgagggatc 720  
acang 725

<210> 308  
<211> 744  
<212> DNA  
<213> Homo Sapien

<220>  
<221> misc\_feature  
<222> (1)...(744)  
<223> n = A,T,C or G

<400> 308  
gnnnnntgaaa gtaatacgac tcaatatagg gcgaattggg cccctctagat gcatgctcga 60  
gcggccgcca gtgtgatgga tatctgcaga attcgcctt tcgagcggcc gcccgggcag 120  
gtacgcgggg tgacaagtag caacatggct tgggtccctt gtgcagcatc agcttatgct 180  
gccacaagtc agtttgcacc ctagggtacc aggagctagt atccttagat ctttctatcg 240  
ctaacttaat tctcttcgtt atttatctga ccccttaact ccatgtctaa cttgcattaa 300  
aaaaaaaaaa attctttaca gtcaaccacaa gcttaacatg gactcagggt ccccgagcag 360  
cttaatttgt tttgttaaca tctgttcctt ctttttcagc tctcctagag tatttctgag 420  
tgttgtgttc atctaattct agtattctt taattacaaa ttgacctcac agcttgaggt 480  
ttcctgtgtc ttattctgtg gactacctgt gctcctttgc ttccctctcc ctcgcataat 540  
aactatatta agaaattttt tttggccttg agttggctgg aaaaaaata taaaatttaa 600  
aaaaaaaaa nnnnnnnnaa aaaaaaaaaa tacctnggcc gggaccacgc taanggcgaa 660  
ttccagcaca ctggcgccg ttactaagtg gatccgaact cggtagcaac ttggcgtaat 720  
catggcatag ctggttcctg ngga 744

<210> 309  
<211> 746  
<212> DNA  
<213> Homo Sapien

<220>  
<221> misc\_feature  
<222> (1)...(746)  
<223> n = A,T,C or G

<400> 309  
gnnnnntnca ntggccctc tagatgcatg ctcgagcggc cgccagtgtg atggatatct 60  
gcagaattcg ccccttcgag cggccgcccg ggcagggtact cggggtgaca agtagcaaca 120  
tggcttgggt cccctgtgca gcatcagctt atgctgccac aagtcagttt gcaccctagg 180  
taccagggag ctagtatcct tagatcttct tatcgctaac ttaattctct tcgttatcta 240  
tctgaccctc taactccatg tctaacttgc attaaaaaaa aaaaaattct ttacagtcaa 300  
cccaagctta acatggactc aggttcccca gcagccttaa tttgttttgt taacatctgt 360

tccttctcttt	tcagctctcc	tagagtattt	ctgagtgttg	tgttcattcta	atcttagtat	420
tctttttaatt	acaaattgac	ctcacagctt	gaggtttcct	gtgtcttatt	ctgtggacta	480
cctgtgctcc	tttgcctccc	ctccctcgc	ataataacta	tattaagaaa	tttttttgg	540
ccttgagttg	gctggaaaaa	aaatataaaa	tttaaaaaaa	aaannnnnnn	nnnnaaaaaa	600
aaaagtcctt	ggccgggacc	acnctaangg	cgaaattcca	gcacaactgg	gcggncctgt	660
actaagggga	atcccnaact	tnngnaccn	aaacttgggc	gtaaaacaat	gggncaataa	720
gctggnnnc	ctggnggtga	aaaatt				746

&lt;210&gt; 310

&lt;211&gt; 751

&lt;212&gt; DNA

&lt;213&gt; Homo Sapien

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(751)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 310

gnnnntgana	gtaatacgac	tcactatagg	gcgaattggg	ccctctagat	gcatgctcga	60
gcggccgcca	gtgtgatgga	tatctgcaga	attcgccctt	tcgagcggcc	gcccgggcag	120
gtacttaatg	cctttctcct	cctggacatc	agagagaaca	cctgggtatt	ctggcagaag	180
tttatatttc	tccaaatcaa	ttcttgaaa	aaacgtgtca	ctttcaaagt	cttgcatgat	240
ccttgtcaca	aatagtttaa	gatggcctgg	gtgattcatg	gcttccttat	aaacagaaact	300
gccaccaact	atccagacca	tgtctacttt	atttgcta	tctggttgtt	cagtaagttt	360
taaggcatca	tctagacttc	tggaaagaaa	atgagctcct	tgtggaggtt	ccttgagttc	420
tctgtcgaga	actaaattaa	ttctaccctt	ttaaaggctga	ttcttctcag	gaatggagaa	480
ccagggtcttc	ttaccataaa	tcaccagatt	ctgnttacct	tctactgaag	aagttgtggt	540
cattctctgg	aaatatctga	attcattcct	gagcgggtggc	caaggcangt	ncccggtctt	600
gccgatgccc	atgttctggg	acacagcgac	gatgcagttt	agcgaaccaa	ccatgacagc	660
aaccggggang	accttcgagc	cccgttcgnt	acaagccccc	gcgtaccttn	gggcccngaa	720
cacgcttaag	ggcgaattnc	aacacactgg	c			751

&lt;210&gt; 311

&lt;211&gt; 724

&lt;212&gt; DNA

&lt;213&gt; Homo Sapien

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(724)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 311

gnnttnncnan	tgggccctct	agatgcatgc	tcgagcggcc	gccagtgtga	tggatatctg	60
cagaattcgc	cctttcgagc	ggccgcccgg	gcaggtaactt	aatgcctttc	tcctcctgga	120
catcagagag	aacacctggg	tattctggca	gaagtttata	tttctccaaa	tcaattttctg	180
gaaaaaacgt	gtcactttca	aagtcttgca	tgatccttgt	cacaaatagt	ttaagatggc	240
ctgggtgatt	catggcttcc	ttataaacag	aactgccacc	aactatccag	accatgtcta	300
ctttattttgc	taattctggt	tgttcagtaa	gttttaaggc	atcatctaga	cttctggaaa	360
gaaaatgagc	tccttgtgga	ggttccttga	gttctctgct	gagaactaaa	ttaattctac	420
cctttaaagg	tcgattcttc	tcaggaatgg	agaaccaggt	cttcttacct	ataatcacca	480
gattctgttt	accttctact	gaagagggtt	tggtcattct	ctggaaatat	ctgaattcat	540
tcctgagcgg	tggccaaggc	angtccccgt	tcttgccgat	gcccagttc	tgggacacag	600
cgacgatgca	gtttancgaa	ccacccatga	cagcagcggg	aggaccttcg	agcccgtctg	660
ttacaagccc	ccgcgtacct	tnggccgcga	acaccttang	gcgaaattca	acacactggc	720
ggcc						724

&lt;210&gt; 312

&lt;211&gt; 738

&lt;212&gt; DNA

&lt;213&gt; Homo Sapien



<220>  
 <221> misc\_feature  
 <222> (1)...(738)  
 <223> n = A,T,C or G

<400> 312  
 nnnntttgaa gntctacnact cactataggg cgaattgggc cctctagatg catgctcgag 60  
 cgcccgccag tgtgatggat atctgcagaa ttccgccctt gagcgccgc ccgggcagggt 120  
 acgccccggg cagacatggc gacattgaca gtggtccagc cgctcaccct ggacagagat 180  
 gttgcaagag caattgaatt actggaaaaa ctacaggaat ctggagaagt acgttctacta 240  
 attatctaca aggacaaaat cagttgtatt tacaaaaact tacttcagtg tttgttttag 300  
 tttttttttt actgaaactt gtttttgtga atactctgtg cttagaatta aatatcactt 360  
 tcttatgaac aacataactt cttcagattg tgtatatgaa aacattagca agtcttggtt 420  
 tttctatgaa gcaaacacaa ttggtgacaa aggttgtaaa tcatttcttc aaaattataa 480  
 tgcagttcta atggtcagca ttttttgata ttaaaattaa agatcacctc tctgcatttg 540  
 tttttaaatt atgctaatac accacacatt atggttggtat gttttggtct gtccctcgcc 600  
 gcgaccacgc ttangcgaa ttccagcaca ctggccggcc gttactagt gatccgagct 660  
 cggccaagc tggcgtaatc atggtcatag ctggttcctg tgtgaaatgg tatccgttac 720  
 aattcccaca catacgan 738

<210> 313  
 <211> 720  
 <212> DNA  
 <213> Homo Sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(720)  
 <223> n = A,T,C or G

<400> 313  
 gnnttncaan tgggcccctc agatgcatgc tcgagcgcc gccagtgtga tggatatctg 60  
 cagaattcgc cctttgagcg gccgcccggg caggtacgcg gggggcagac atggcgacat 120  
 tgacagtggc ccagccgctc accctggaca gagatgttgc aagagcaatt gaattactgg 180  
 aaaaactaca ggaatctgga gaagtacgtt cactaattat ctacaaggac aaaatcagtt 240  
 gtatttaca aactctactt cagtgtttgt ttttagtttt tttttactga aacttgtttt 300  
 tgtgaatact ctgtgcttag aattaaatat cactttctta tgaacaacat aacttcttca 360  
 gattgtgtat atgaaaacat tagcaagtct tgttttttct atgaagcaaa cacaattggt 420  
 gacaaagggt gtcaatcatt tcttcaaaat tataatgcag ttctaattgg cagcatattt 480  
 tgatattaaa tttaaagatc acctctctgc atttggtttt aaattatgct aatacaccac 540  
 acattatggt ggtatgtttt gntctgtacc tcggccgcga ccacgctaan ggccaattca 600  
 ncacactggc ngncgttact agtggatccg agctcggacc aaacttggcg taatcatnqn 660  
 catagctggt tctgtgtga aaatggtatc cgttacaatt tcacacacat acgagccgga 720

<210> 314  
 <211> 740  
 <212> DNA  
 <213> Homo Sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(740)  
 <223> n = A,T,C or G

<400> 314  
 gnnnnntnaa gntacgact cactataggg cgaattgggc cctctagatg catgctcgag 60  
 cgcccgccag tgtgatggat atctgcagaa ttccgccctt gcgtggtcgc ggccgaggta 120  
 cttttttttt tttttttttt ttagtgcttt ctactttatt aaacatcaaa gcccaaatag 180  
 atgttccctg tggaggagga cttaaggaca ctaggggagg agaaagggac acctgggaag 240  
 agaatcacac cacagagacc aatcttcaca aaaagggtcc aatattgatt tctagggagg 300  
 agcagggcat ggtcagctca aatttggtga taacgtcagg atgaaggacc ccaagcttcc 360

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cgacgctttg acccctggca aagatctctg cacatcgccc ggggaagaaa gcaggccctt 420
ctgatgcttt gatcacatat ccccccttgt cttcaccagg aggcacatcg agcaactgca 480
taattctgtc cagcagccca tgaatgatct caaaccagg attcttgntg taataaacag 540
cactgagatg tctgtagttt ttgacaccta catctgnatt agaattcttt attacaatgt 600
cagagatttc aaacagtctc agtgggaagg gcattcttac attgctgcta tggcttcagg 660
angccaggaa gaagggtagt gcgtgccacc tgaaattcac tggtttagga tacttatgtg 720
gactggcttt gttgcaaaan

```

&lt;210&gt; 315

&lt;211&gt; 722

&lt;212&gt; DNA

&lt;213&gt; Homo Sapien

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(722)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 315

```

gnnnnnnnnn nnnnnntnn atgctgctcg agcggccgce agtgtgatgg atatctgcag 60
aattegcctt tagcgtgggc gcggccgagg tacttttttt tttttttttt ttttagtgct 120
ttctacttta ttaaacaatc aagcccaaat agatgttccc tgtggaggag gacttaagga 180
cactagggga ggagaaaggg acacctggga agagaatcac accacagaga ccaatcttca 240
caaaaagggt ccaatattga ttctaggga ggagcagggc atggtcagct caaatttggt 300
gataacgtca ggatgaagga ccccaagctt cccgacgctt tgacccctgg caaagatctc 360
tgcacatcgc ccggggaaga aagcaggccc ttctgatgct ttgatcacat atccccctt 420
gtcttcacca ggaggcacat cgagcaactg cataattctg tccagcagcc catgaatgat 480
ctcaaaccga ggattcttgt tgtaataaac agcactgaga tgtctgtagt tttttgcacc 540
tacatctgna ttagaatctt ttattacaat gtcagagatt tcaaacagtt tcagtggaaa 600
ggggcatctt acgatttgct gctatggnc tcanaggnc angaaaaagg gtantgcntg 660
ccctgaaat tcanctggtt taggattacc tatgtggact ggctttgntg caaaaaaattn 720
cn

```

&lt;210&gt; 316

&lt;211&gt; 753

&lt;212&gt; DNA

&lt;213&gt; Homo Sapien

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(753)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 316

```

gnnnnnttna nagtnnnnac gactcactat aggggcgaac nctctncatg catgctcnan 60
cggnncnnan ngtgatggat atntgctgan ttccgccccta cntngcntn ggccgaggcg 120
cagntcccac gtntngctcc nactncnnn accgcagggg cncngacnnc gaccngngnn 180
ncnnngngag tnccncagca ctacttggga nggctanagg gaagnttgga aataaaattc 240
caaannttgg agtaaaagca atncangcgn ngattatata tgntnnccct ttctgacacn 300
ncttagagcg tagggggaac atngntntat ctgtgggana tnaacaagat ggagteccaa 360
agactttaac aaagntatct cttaannatc cncacaaatn nanaatncat tattcatatn 420
tactntatgc tgnnagtggag tatntatgct ngctctatct aaacttgnga gaanaagtgg 480
tntcccttga tacattnaga aatatggggg ctatcttgnt ncattgtggg ggtggggcan 540
aagganaatn aatgcangat gaccctgttg aangaatctt aacatggcca acanggggac 600
ngtttacagt cgattaccag gaaangcaag ccttgggggt tctactgcng gtgggggctg 660
tcattgaactt naaaatccan agnctatacc aggaaaaagt gttangaccc aattgaaang 720
ctntccaccc tttctttttn ttgttccng cnc

```

&lt;210&gt; 317

&lt;211&gt; 893

&lt;212&gt; DNA

&lt;213&gt; Homo Sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(893)  
 <223> n = A,T,C or G

<400> 317  
 gtgnnnntntn cnaaatggnc cntttnaatg cctncctcga gcgggcccgc agtgtgatgg 60  
 atntntaatt cgncccttagc gtggtcgcg cggnggtacn aangaaataa aantnacagt 120  
 ntcaaagaac caaantaagt cggacacaaa cccctgtcac cannagagtc ccatanacat 180  
 aannnggntn ntgtcaagna ggattnaaat taactttaac aacnttntat ataagtctac 240  
 attccccaat taataaagga nagttcacat atacanctaa ntgntaattg tggaaanaag 300  
 ggtgaaantn tgcatannta atannaaana atgctgaang cttttncata nnattnnctt 360  
 aaaaatncac ttncnatgca gcantangtn tacatgctta atntatcntg cnagtgtatn 420  
 ntatgcttgt cctacatgac ntaccttgaa caactgggac tncccagatt catactgaaa 480  
 tatggggncg ntaantatnt tgggancggg annacntgaa tccctcaaagg atannnnntn 540  
 tccagntgga tgaaccnat nattnaaang gatatnnnta accatnggan cgaatgnncg 600  
 nngntctttt tcaatnnntc gngaagntnc cnnttnnata ncccnggggc cncattgngg 660  
 ggnntatntn ncaatcaann ccnngagntg tntnntcntt cntcnaccgc ataacctttt 720  
 gccatagga acccttnttn aacccttttg gnttatnggg aaanaannnn nnttttaaata 780  
 tcnccaaaat ngggaaaaan aacccttntc actctaaaaa nttanccnta gacctantn 840  
 tngngncata tttgntaaac nctatggnc ctcnagnggg gnnctgggnc nnc 893

<210> 318  
 <211> 744  
 <212> DNA  
 <213> Homo Sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(744)  
 <223> n = A,T,C or G

<400> 318  
 gnnnnngattg tatacgactc actatagggc gaattggggc ctctagatgc atgctcgagc 60  
 ggccgcccagt gtgatggata tctgcagaat tcgccccttc gagcgggccgc ccgggcaggt 120  
 acctcattag taattgtttt gttgtttcat ttttttctaa tgtctccctt ctaccagctc 180  
 acctgagata acagaatgaa aatggaagga cagccagatt tctcctttgc tctctgctca 240  
 ttctctctga agtctaggtt acccattttg gggacccatt ataggcaata aacacagttc 300  
 ccaaagcatt tggacagttt cttgttgtgt tttagaatgg ttttcctttt tcttagcctt 360  
 ttcttgcaaa aggtcactc agtcccctgc ttgctcagtg gactgggctc cccagggcct 420  
 aggtgcctt cttttccatg tcccacccat gagccctcca ctggacagct cagtaagcct 480  
 ggcccttcat tctgcgctgt gttcttctc tgtgaaaac caatacctct tacctcctct 540  
 gcatgcaaag attctcaagg attgtcagac ttcaaacgta acagcagaac caccagaagg 600  
 tcctataaat gcagtagtga ccttctcaag ctgtcanggc tttaaatagg atttgggatt 660  
 taatgctatg tatttttaaa ggaaagaaat aagagttgct agttttaaaa atgcatgtct 720  
 tttaccaatt canaatctgg cccc 744

<210> 319  
 <211> 720  
 <212> DNA  
 <213> Homo Sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(720)  
 <223> n = A,T,C or G

<400> 319  
 gngtttaaac cttcttanng ctgctcgagc ggccgccagt gtgatggata tctgcagaat 60  
 tcgccccttc gagcgggccgc ccgggcaggt acctcattag taattgtttt gttgtttcat 120  
 ttttttctaa tgtctccctt ctaccagctc acctgagata acagaatgaa aatggaagga 180

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cagccagatt tctcctttgc tctctgctca ttctctctga agtctaggtt acccattttg 240
gggacccatt ataggcaata aacacagttc ccaaagcatt tggacagttt cttgttgtgt 300
tttagaatgg ttttcctttt tcttagcctt ttcttgcaaa aggtctactc agtcccttgc 360
ttgctcagtg gactgggctc cccagggcct aggtctgcctt cttttccatg tcccacccat 420
gagccctcca ctggacagct cagtaagcct ggcccttcat tctgcgctgt gttcttcttc 480
tgtgaaaatc caatacctct tacctcctct gcatgcaaag attctcaagg attgtcagac 540
ttcaaacgta acagcagaac caccagaagg tcctataaat gcagtagtga ccttctcaag 600
ctgtcanggc tttaaatagg atttgggatt taatgctatg tatttttaaa ggaaagaaat 660
agagttgcta gttttaaaaa tgcattgtctt ttaaccaatt cagaatctgg cccnaactt 720

```

<210> 320

<211> 694

<212> DNA

<213> Homo Sapien

<220>

<221> misc\_feature

<222> (1)...(694)

<223> n = A,T,C or G

<400> 320

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atgctcgagc ggnccggcant gtgatggatn tctgcagaat tcgccctttc gagcgggccgc 60
ccgggcaggt actattccgg atatacaaga tcaactgggag atgttgatga tggagacaca 120
gtgacagatt tcatggccca agagcgagaa agaggcntta ctattcaatc agctgctgtt 180
acatttgatt ggaaagggtta tagagtcaat ctaattgata caccaggtca tgtggacttt 240
accttggaag ttgagcggtg cctaagagtg ttggatgggt cantggctgt atttgatgcc 300
tctgctggtg tagaggccca gactntcaca gtatggaggc aagctgataa acacaatata 360
cctcgaatct gttttttaa caagatggac aaaactggag caagctttaa gtatgcagtt 420
gaaagcatca gagagaagtt aaaggcaaag cctttgcttt tacagttacc aattggtgaa 480
gccaaaactt tcaaaggagt ggtggatgta gtaatgaang aaaaacttct ttgggaattg 540
caattcaana tgatggaaaa gactttgaga gaaagccctt cttggaaatg aatgatcctg 600
aattgctgaa ggaaacaact gaacaaggaa tgccttaatt gaacaaagt gcagatttgg 660
atgatgaatt tgctgacttg gttttaagaa gaat 694

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<210> 321

<211> 781

<212> DNA

<213> Homo Sapien

<220>

<221> misc\_feature

<222> (1)...(781)

<223> n = A,T,C or G

<400> 321

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gngttnacna ntgggccctc tngatgctgc tcgagcggcc gncagtggtga tggatntctg 60
cagaatncgc cctncgggag gccgnccggg caggactat nccgatata caagatcact 120
gggagatggt gatgatggag acncagngac agatttcatg gcccaagagc gagaaagagg 180
cnttactatn caatcagctg ctgttacatt cgatttgaaa ggttatngag tcaatctaata 240
tgatncacca ngtnatgtgg actttacctt ggaggttgag cgtgcctaa nagtgttggg 300
tggtgcannng gctgtatttg atgcctctgc tggtgtagag gccagactc tcacagtatg 360
gatgcaagct gataaacaca atatacctng aatctgtgtt ttaaacaaga tggacaaaac 420
tggagcaagc tttaaagtnt gcagttgaaa gcatcagaga gangttnaag gcanagcctt 480
tgcttttaca gtttcccaat tgggtgaaac ccaaaacttt tcaaaggag ttggttggat 540
tgtaagtaat gaaaggaaaa acttcttttg gaaantggca atttcaanat gattggaaaa 600
ngacttttgg gagaaaagcc cttctctggg aaaatngaaa tgatncctga aatttgcngt 660
aaanngaaaa cnaactgna atccaangga attncctttt aanttggaa aaaggnttgc 720
naanttttng attgaatnga atttgncong cntttnggtt ttangaaaga aattaaagng 780
g 781

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<210> 322

<211> 744

&lt;212&gt; DNA

&lt;213&gt; Homo Sapien

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(744)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 322

gnnntganag	tatcgactca	ctatagggcg	aattggggccc	tctagatgca	tgctcgagcg	60
gccccgccagt	gtgatggata	tctgcagaat	tcgccctttc	gagcggccgc	ccgggcaggt	120
acgcggggac	tgggtttttc	tccttttgta	gccttttcct	ttagtctcct	cttccccgtg	180
gttggtaaaa	agaggtgaat	tgacagccta	tggtgaagac	actgtgcttt	tctcaagaag	240
gacatccaaa	cagcaagtct	acttctttct	ctttaacgat	gtgctcatta	tcaccaagaa	300
gaagagtga	gaaagttaca	acgtcaatga	ttattcctta	agagatcagc	tattggtgga	360
atcttgtgac	aatgaagagc	ttaattcttc	tcagggggaag	aacagctcca	caatgctcta	420
ttcaagacag	agctctgcca	gtcacctctt	tactctgaca	gtccttagta	accacgcgaa	480
tgagaaaagt	gagatgctac	taggagctga	gacgcagagc	gagcgagccc	gctggataac	540
tgccctggga	cacagcagcg	ggaagccgcc	tgagaccgca	acctnactga	cccaggtgga	600
aatcggttag	tcatttactg	ctaagcagcc	agatgaactc	ttcctgcagt	ggctgacgtc	660
gtcctcatct	atcaacgtgt	cagcgatggc	tggtatgaag	gggaacgact	tcgagatgga	720
gaaagaagnt	gggttcctat	ggaa				744

&lt;210&gt; 323

&lt;211&gt; 723

&lt;212&gt; DNA

&lt;213&gt; Homo Sapien

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(723)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 323

gtgttttcaan	cggtcctcta	gatgctgctc	gagcggccgc	cagtgtgatg	gatatctgca	60
gaattcgccc	tttcgagcgg	ccgcccgggc	aggtacgcgg	ggactgggtt	tttctccttt	120
tgtagccttt	tccttttagtc	tcctctcccc	ggtgggttgg	aaaaagaggt	gaattgacag	180
cctatgttga	agacactgtg	cttttctcaa	gaaggacatc	caaacagcaa	gtctacttct	240
ttctctttaa	cgatgtgctc	attatcacca	agaagaagag	tgaagaaagt	tacaacgtca	300
atgattattc	cttaagagat	cagctattgg	tggaatcttg	tgacaatgaa	gagcttaatt	360
cttctccagg	gaagaacagc	tcacacatgc	tctattcaag	acagagctct	gccagtcacc	420
tctttactct	gacagtcctt	agtaaccacg	cgaatgagaa	agtggagatg	ctactaggag	480
ctgagacgca	gagcgagcga	gcccgcctgga	taactgccct	gggacacagc	agcgggaagc	540
cgctgcagac	cgaacctcac	tgacccaggt	ggaaatcggt	aggtcattta	ctgctaagca	600
gccagatgaa	ctcttctctg	angtggctga	cgctgctctc	atctatcaac	gtgtcancga	660
tggtgggtatg	aaggggaacg	actacnagat	ggagaaagaa	gctgggtttcc	tatggaatgt	720
gcc						723

&lt;210&gt; 324

&lt;211&gt; 746

&lt;212&gt; DNA

&lt;213&gt; Homo Sapien

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(746)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 324

ggngnttgaag	ncncgactca	ctatagggcg	aattggggccc	tctagatgca	tgctcgagcg	60
gccccgccagt	gtgatggata	tctgcagaat	tcgcccttag	cgtgggtcgcg	gccgaggtac	120
cttgagatct	gagcaactgt	gttaatgaag	taatagcaat	ggtccacagt	gaaagatgtg	180

ttgggggtttg	caaaacaagc	attccgtcac	ctctttaata	atgtcacaga	cttttttaaa	240
agagaggcta	tcaagtgta	atataatctg	tcatgtttta	tttaggaagg	aaggtaaatt	300
tgtgcttgca	cggggatcat	tttgatttat	ttntgcta	acccagttga	agctaaaaag	360
caactatttg	aatcctgtga	attaatttat	aagaatgtta	aacagctntg	gaaatacatg	420
catcttatga	atcatagcct	tatttagcaa	gatcaatgtt	aaagtgttga	tatatggcaa	480
gtatttaaca	cattcacagt	gntagtttga	tttcaactgt	gaattgtctt	acagtttttt	540
caaacctagt	gtntctatgg	acacctgctc	tgaattgtac	ccctcagtc	ccaccaaaagc	600
attnacccc	ctttcaacc	ccaatcagac	cantgctttc	agtggattg	gaggacttnt	660
atcacagctt	catnangtgg	tcttggcaca	ggcagntcga	ctngcttngg	aactggtgct	720
tttggactcc	cttcaanngn	aatant				746

&lt;210&gt; 325

&lt;211&gt; 742

&lt;212&gt; DNA

&lt;213&gt; Homo Sapien

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)... (742)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 325

gtgtttcann	cggccctcta	gatgcatgct	cgagcggccc	gccagtgtga	tggatatctg	60
cagaattcgc	ccttagcgtg	gtcgcggccg	aggtaccttg	agatctgagc	aactgtgtta	120
atgaagtaat	agcaatggc	cacagtga	gatgtgttgg	ggtttgcaa	acatgcattc	180
cgtcacctct	ttaataatgt	cacagacttt	tttaanagag	aggctatcaa	gttgnatat	240
aatctgtcat	gtattattta	agaaggaagg	taaatntgtg	cttgacggg	gatcattttg	300
nattatttct	gctnatcccc	agctgaagct	nanaancnac	tnnttgnatc	ctgtgantta	360
atncatanna	atgttanaca	gctntggaaa	tccatgcctc	ttatgaatca	tngccttatt	420
tancangatc	aatgttaaa	ntggtgat	nnggcaagtn	tnaacacat	tnacantgct	480
agtntgattt	caactgngaa	ttgncttacc	gtnttttnaa	acctananga	atntatngac	540
acctnctctn	aatngnnncc	ctcaancacc	acnaaanctt	ttncnnccct	tncaaccccc	600
nacngaccn	cngcattcag	tngnaancng	aangactttc	atcacaactg	gncaanatnt	660
nggacttttg	cggcatgcnn	accctcttgg	nctttngaac	nnggttgcct	tttnggactt	720
tnccctgng	ngataaccac	cn				742

&lt;210&gt; 326

&lt;211&gt; 747

&lt;212&gt; DNA

&lt;213&gt; Homo Sapien

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)... (747)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 326

atgnttttaag	tatacgactc	actatagggc	gaattgggcc	ctctagatgc	atgctcgagc	60
ggccgccagt	gtgatggata	tctgcagaat	tgcgcccttc	gagcggccgc	ccgggcaggt	120
actgtatcat	tggcagatgt	gacgtcaccg	acaaccagag	tgaagtggcg	gacaaaactg	180
aggattacct	gtgctgaag	ttgaaccaag	tgtgttttga	cgacgatggc	accagctccc	240
cacaagacag	gctcactctc	tcacagttcc	agaagcagtt	gttgaagac	tatggcgagt	300
cccactttac	ggtgaaccag	caacccttcc	tctacttcca	agtccctgtt	ctgacagcgc	360
agtttgaagc	agcagttgcc	tttcttttcc	gcatggagcg	gctgcgctgc	catgctgtcc	420
atgtagcact	ggtgctgttt	gagctgaagc	tgctttttaa	gtcctctgga	cagagtgtcc	480
aactcctcag	ccacgaacct	ggtgacctt	cttgcttgcg	gcggtgaac	ttcgtgcggc	540
tctctactgt	gtacctcgcc	cgngaccacg	ctaaggcgca	attccagcac	actgcggnnc	600
gttactagt	gtaccgagct	cggtaccaaa	cttggcgtaa	tcattggnat	agctggttcc	660
tgtgtgaaat	ggtatccgtt	acaatttcac	acaacatacg	agccgggaag	catnaagtgt	720
naaacctggg	gtgcctnatg	agtgach				747

&lt;210&gt; 327

<211> 724  
<212> DNA  
<213> Homo Sapien

<220>  
<221> misc\_feature  
<222> (1)...(724)  
<223> n = A,T,C or G

<400> 327  
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aattcgccct ttcgagcggc cgcccgggca ggtactgtat cattggcaga tgtgacgtca 120  
ccgacaacca gagtgaagtg gcggacaaaa ctgaggatta cctgtggctg aagttgaacc 180  
aagtgtgttt tgacgacgat ggcaccagct ccccaacaaga caggctcact ctctcacagt 240  
tccagaagca gttgttggaa gactatggcg agtcccactt tacggtgaac cagcaaccct 300  
tcccttactt ccaagtccctg ttcctgacag cgcagtttga agcagcagtt gcctttcttt 360  
tccgcatgga gcggctgcgc tgccatgctg tccatgtagc actggtgctg tttgagctga 420  
agctgctttt aaagtccctt ggacagagtg ctgagctcct cagccacgag cctggtgacc 480  
ctccttgctt gcggcggctg aacttcgtgc ggctcctcat gctgtacctc ggccgcgacc 540  
acgctaaggc cgaattccag cacactggcg gccgttacta gtggatccga gctcgggtacc 600  
aagcttgggc taatcatggt catagctggt tccgtgtgta aattgtatcc gctcacatt 660  
ncacacaaca tacgagccgg aagcataaag tgtaaaacct ggggtgccta atgagtgaac 720  
taan 724

<210> 328  
<211> 747  
<212> DNA  
<213> Homo Sapien

<220>  
<221> misc\_feature  
<222> (1)...(747)  
<223> n = A,T,C or G

<400> 328  
tgnntgttag atacgactca ctatagggcg aattgggccc tctagatgca tgetcgagcg 60  
gcccgcaggt gtgatggata tctgcagaat tcgcccttag cgtggctcgc gccgaggtac 120  
tttttttttt ttttttaaag acagagtctt gctctgtcac ccaggctgga gtgcagtggc 180  
acgatctcgg ctcaactgcaa gctctgcctc ccgggttcac gccattctcc tgccctcagcc 240  
tcccagtag ctgggactac aggtgcccgc caccatgccc ggctgatttc tttttgtatt 300  
tttagtagag acggagtttc accgtgttag ccaggatggt ctgcatctcc tgacctcgtg 360  
atccgcccgc ctggccctcc aaagtgtcgg gattacaggt gtgagctacc gcgcccggcc 420  
tattatcttg tactttctaa ctgagccctc tattttcttt attttaataa tatttctccc 480  
cacttgagaa tcacttggtt gttcttggtt ggaattcagt tgggcaatga taacttttat 540  
gggcaaaaac attctattat agtgaacaaa tgaaaataac agcgtatttt caatattttc 600  
ttattcctta aattccactc ttttaacact atgcttaacc acttaatgtg atgaaatatt 660  
cctaaaagtt aaatgactat taaagcatat attggtgcat gnataatta aagtaccgga 720  
tactctaat aaaaatccac tggtcn 747

<210> 329  
<211> 725  
<212> DNA  
<213> Homo Sapien

<220>  
<221> misc\_feature  
<222> (1)...(725)  
<223> n = A,T,C or G

<400> 329  
gcgtttcaan tgggccctct ngngcatgct cgagcggccg ccagtgtgat ggatatctgc 60  
agaattcgcc cttagcgtgg tcgcggcga ggtacttttt tttttttttt taaagacaga 120

```

gtcttgcctc gtcacccagg ctggagtgea gtggcaegat ctcggctcac tgcaagctct 180
gcctcccggg ttcacgccat tctcctgcct cagcctcccg agtagctggg actacagggtg 240
ccccccacca tgcccggctg atttcttttt gtatttttag tagagacgga gtttcaccgt 300
gttagccagg atggtctcga tctcctgacc tctgtatccg cccgccttgg cctccaaagt 360
gctgggatta cagggtgtgag ctaccgcgcc cggcctatta tcttgactt tctaactgag 420
ccctctattt tctttatttt aataatattt ctccccactt gagaatcact tgttagttct 480
tggtaggaat tcagttgggc aatgataact tttatgggca aaaacattct attatagtga 540
acaaatgaaa ataacagcgt attttcaata ttttcttatt ccttaaatc cactctttta 600
acactatgct taaccactta atgtgatgaa atattcctaa aagttaaatg actattaaag 660
catatattgg tgcattgata tattaagtag cccgatctct naataaaaat ccactggtac 720
agata 725

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&lt;210&gt; 330

&lt;211&gt; 741

&lt;212&gt; DNA

&lt;213&gt; Homo Sapien

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(741)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 330

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gnnntganag atacgactca ctataggggc aattggggccc tctagatgca tgctcgagcg 60
gccccccagt gtgatggata tctgcagaat tgcgcccttag cgtggtcgcg gccgagggtac 120
tttttttttt tttttttttt tttttttttt ggaagtttaa tttactcaca gttcaacatg 180
gctggggagg cctcaggaaa tttaacaata taacagaagg caaaggggaa gccagatacc 240
ttcttcacaa ggtggcagga aggagaagag ccgagagaag gcggaagaat cccttataaa 300
accatcagat ctctgtgagaa ctacttgct atcaggagaa cagcatgggg gaaccgcccc 360
caggattcaa tgacctncac ctggtctctc ccttgacacg tgaggattat ggggattaca 420
attccagatg agatttgggt ggggacacaa agccaaacca tatcaactgt gactaccttg 480
ggtaaggggc atccaggcag aggcaggggg aacattctgg gcaaaggcct tggggcaggg 540
gcctggtatg ttcagatagc ancaagtagg ccagantggc cggaggggag taagtgtggg 600
gaggccagtg ganagatgag ggtaggggag ggatggatca gatcatgcag ggccccgggg 660
gccacaggaa ngacctnagc atttactgca agtaangtgg gaaccatcga atgtctaagc 720
naggaggaat ccctgtgact c 741

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&lt;210&gt; 331

&lt;211&gt; 727

&lt;212&gt; DNA

&lt;213&gt; Homo Sapien

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(727)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 331

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gtnnnnnegan ngggccctct agatgcatgc tgcagcggcc gccagtggtga tggatatctg 60
cagaattcgc ccttagcgtg gtcgcggccg aggtactttt tttttttttt tttttttttt 120
ttttttggaa gtttaattta ctcacagttc aacatggctg gggaggcctc aggaaattta 180
caattataac agaaggcaaa ggggaagcca gataccttct tcacaagggt gcaggaaagg 240
gaagagccga gagaaggcgg aagaatccct tataaaacca tcagatctcg tgagaactca 300
cttgctatca ggagaacagc atgggggaac cgcgccagg attcaatgac ctccacctgg 360
tctctccctt gacacgtgag gattatgggg attacaattc cagatgagat ttgggtgggg 420
acacaaagcc aaaccatata aactgtgact accttgggta agggccatcc aggcagaggc 480
aggggggaaca ttctgggcaa aggccttggg gcaggggcct ggtatgttca gatagcagca 540
agtagggccag antggccgga ggggagtaag tgtggggagg ccagtggaaa aatganggta 600
gggaaaggga tggatcagat catgcagggc cccggggggc acangaagga cctnacattt 660
actgcaagta angtgggagc catcgaatgt tctaagcana ngangaatcc ctgngactca 720
ngtgtnn 727

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<210> 332  
 <211> 734  
 <212> DNA  
 <213> Homo Sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(734)  
 <223> n = A,T,C or G

<400> 332  
 gnntganagt atacgactca ctataggcg aattgggccc tctagatgca tgctcgagcg 60  
 gcccgccagt gtgatggata tctgcagaat tcgccctttc gagcggccgc ccgggcagggt 120  
 acccttctcg cttttgccat tagccaagga tagaagctgc agtgggtatta attttgatat 180  
 aatctttcaa accagcttca tgtggcttcc cttttctttg ttcaagatga gggccaggag 240  
 gggaaacatc acacctgccc taaacctgt tcttgagggt cagcatttga tctgttgcaa 300  
 gcccctcttt ctgtcccttc ttcctaccct gcctcccatg actttgctcc tcacactttt 360  
 ggaaccatgc cttcgggggg ggcccatctc ttctggccgt ccttgtctct gggccacttg 420  
 gagtgtgtga taaatcagtc aagctgttga agtctcagga gtctctggta gcctgcagaa 480  
 gtaagctca tcatcagagc ctttcctcaa aactggagtc ccaaatgtca tcagggtttg 540  
 ntttttttcc aaccactaag aacctctctg cttttaactc tagaatttgg gcttggaacca 600  
 gatctaact cttgaatact ctgccctcta gaccttcacc ttaatggaan gtggatccca 660  
 nganggtgta atggacatca agccactcgc ggcagcatgg agctatacta agcatcctta 720  
 nggtctgcct ctcn 734

<210> 333  
 <211> 710  
 <212> DNA  
 <213> Homo Sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(710)  
 <223> n = A,T,C or G

<400> 333  
 ntgggcccctc tngnctgct cgagcgccgc ccagtgtgat ggatatctgc agaattcgcc 60  
 ctttcgagcg gccgcccggg caggtaccct tctcgctttt gccattagcc aaggatagaa 120  
 gctgcagtgg tattaatttt gatataatct ttcaaaccag cttcatgtgg cttccctttt 180  
 ctttgttcaa gatgagggcc aggaggggaa acatcacacc tgccctaaac cctgttcttg 240  
 gaggtcagca tttgatctgt tgcaagcccc tctttctgtc cctcttctct accctgcctc 300  
 ccatgacttt gctcctcaca cttttgggaa catgccttcc gggggggccc atctcttctg 360  
 gccgtccttg tctctgggcc acttgaggatg tgtgataaat cagtcaagct gttgaagtct 420  
 caggagtctc tggtagcctg cagaagtaag cctcatcctc agagcctttc ctcaaaactg 480  
 gagteccaaa tgtcatcagg ttttgttttt ttttcagcca ctaagaaccc ctctgctttt 540  
 aactctagaa tttgggcttg gaccagatct aacatcttga atactctgcc ctctagagcc 600  
 ttcagcctta atggaagggt ggatccaang anggtgtaat ggaacatcaa gccactcgcc 660  
 gcagcatgga gctatactaa gcactcttta nggtctgcct cttcagcatt 710

<210> 334  
 <211> 2051  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(2051)  
 <223> n = A,T,C or G

<400> 334  
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 ttcttctctg ttaagtcctg ggggaggaag gccctttctc tcttcagtct aataatcaac 120

tgttcactat	tcacaatagc	aacatcatgg	gctgaaccta	tgtgtccatc	aacagatgat	180
tagattttta	aattgtgcata	tataccatgg	aatacatacg	caaccatcaa	aaataatgaa	240
atcacatctt	ttgcagcaat	atggatggaa	ctggaagccc	ttatcgtaag	tgaaatgact	300
cagagacaga	aagtcagaaa	ctgcatgttc	tcatttgga	actgaaaatc	acacacacat	360
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cagattggag	cagggtttgt	tatgcatgta	gagaacccaa	actaatttat	taaacaggat	540
agaaacaggc	tgtctgggtg	aaatggttct	gagaaccatc	caattcacct	gtcagatgct	600
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aatggggaaa	aagcaagatg	gattcacaaa	ccaagtaatt	ttaaacaaag	acactttttt	720
ttttttttgc	aacacaatat	acatcacagt	gaaatgtgta	atccttgcaa	attgcaagtt	780
gaagaatta	aattcagagg	aggggagaga	aagagtactc	agtagggact	gagcactaaa	840
tgcttatttt	aaaagaaatg	taaagagcag	aaagcaattc	aggctaccct	gcctttttgtg	900
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# INTERNATIONAL SEARCH REPORT

Internat. Application No

PCT/US 99/13181

A. CLASSIFICATION OF SUBJECT MATTER  
IPC 6 C12N15/12 C07K14/47 C12Q1/68 G01N33/68 C07K16/18  
A61K31/70

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 6 C12N C07K

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	HILLIER, L. ET AL.: "WashU-NCI human EST project: zu71f08.s1 Soares testis NHT Homo sapiens cDNA clone 743463" EMBL DATABASE ENTRY AA609384, 1 October 1997 (1997-10-01), XP002128750 the whole document	1,2,7-9
A	--- HILLIER, L. ET AL.: "WashU-NCI human EST project 1997: zv83c03.s1 Soares total fetus Nb2HF8 9w Homo sapiens cDNA clone 760228" EMBL DATABASE ENTRY HS1226101; ACCESSION NUMBER AA425141 (VERSION 2), 28 October 1997 (1997-10-28), XP002128751 the whole document --- -/--	1,2,7-9

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

### \* Special categories of cited documents:

- \*A\* document defining the general state of the art which is not considered to be of particular relevance
- \*E\* earlier document but published on or after the international filing date
- \*L\* document which may throw doubt on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- \*O\* document referring to an oral disclosure, use, exhibition or other means
- \*P\* document published prior to the international filing date but later than the priority date claimed

\*T\* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

\*X\* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

\*Y\* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.

\*Z\* document member of the same patent family

Date of the actual completion of the international search

26 January 2000

Date of mailing of the international search report

02.05.2000

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2  
NL - 2280 HV Rijswijk  
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,  
Fax: (+31-70) 340-3016

Authorized officer

ANDRES S.M.

# INTERNATIONAL SEARCH REPORT

Internal / Application No

PCT/US 99/13181

## C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	HILLIER, L. ET AL.: "WashU-NCI human EST project: za83e08.r1 Soares fetal lung NbHL19W Homo sapiens cDNA clone 299174" EMBL DATABASE ENTRY HS287326; ACCESSION NUMBER W05287,8 May 1996 (1996-05-08), XP002128752 the whole document	1,2,7-9
A	--- WO 98 04689 A (UROCOR INC) 5 February 1998 (1998-02-05) page 4, line 8 -page 5 page 13 -page 52 page 66 -page 85 page 112 -page 122	1-11
A	--- HELLER ET AL: "DISCOVERY AND ANALYSIS OF INFLAMMATORY DISEASE-RELATED GENES USING cDNA MICROARRAYS" PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF USA, vol. 94, March 1997 (1997-03), pages 2150-2155, XP002100125 ISSN: 0027-8424 -----	

# INTERNATIONAL SEARCH REPORT

International application No.

PCT/US 99/ 13181

## Box I Observations where certain claims were found unsearchable (Continuation of Item 1 of first sheet)

This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☒ Claims Nos.:  
because they relate to subject matter not required to be searched by this Authority, namely:  
  
see FURTHER INFORMATION sheet PCT/ISA/210
2. ☐ Claims Nos.:  
because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
3. ☐ Claims Nos.:  
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

## Box II Observations where unity of invention is lacking (Continuation of Item 2 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

see additional sheet

1. ☐ As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2. ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4. ☒ No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

1-11 (all partially)

Remark on Protest

☐ The additional search fees were accompanied by the applicant's protest.

☐ No protest accompanied the payment of additional search fees.

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

Continuation of Box 3.

Although claims 8 to 11 are directed to a method of treatment of the human/animal body, the search has been carried out and based on the alleged effects of the compound/composition.

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Further defect(s) under Article 17(2)(a):

Continuation of Box 3.

Claims Nos.: 3 and 6

Present claims 3 and 6 relate to a nucleic acid sequences defined only by the (arbitrary) name of the clone they originate from. The use of these names in the present context is considered to lead to a lack of clarity within the meaning of Article 6 PCT. It is impossible to relate the clone names as given in claims 3 and 6 with the to be searched polynucleotide defined by SEQ ID 1. Consequently, no search has been carried out for claims 3 and 6 in the context of the first subject as mentionned on the communication pursuant to Art. 17(3)(a) PCT.

The applicant's attention is drawn to the fact that claims, or parts of claims, relating to inventions in respect of which no international search report has been established need not be the subject of an international preliminary examination (Rule 66.1(e) PCT). The applicant is advised that the EPO policy when acting as an International Preliminary Examining Authority is normally not to carry out a preliminary examination on matter which has not been searched. This is the case irrespective of whether or not the claims are amended following receipt of the search report or during any Chapter II procedure.



FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

Invention 1: Claims 1-11 (all partially)

A method for diagnosing or treating a prostate disorder by providing a probe, antisense, ribozyme capable of hybridizing to SEQ ID 1 or its complement, or an antibody capable of binding to a polypeptide encoded by SEQ ID 1.

Inventions 2 to 339: Claims 1,2,4,5,7-11 (all partially) and 3,6, 12-15 (all partially and as far as applicable)

As for subject 1. but respectively relating to SEQ IDs 2 to 339 (i.e. subject 2. corresponding to SEQ ID 2, subject 3. corresponding to SEQ ID 3,..., subject 339. corresponding to SEQ ID 339) and when applicable including the polynucleotide, vectors, cells and a composition containing the corresponding polypeptide.

# INTERNATIONAL SEARCH REPORT

Information on patent family members

Internat. Application No

PCT/US 99/13181

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
W0 9804689 A	05-02-1998	AU 6642996 A	20-02-1998
		EP 0951541 A	27-10-1999
		US 5882864 A	16-03-1999
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